

**TL**

437

.A42



Class Th 437  
Book A 42

COPYRIGHT DEPOSIT





# PATENTS and REFERENCES.

—0—

Lists of United States Patents

FOR

## Cycles or Velocipedes with Attachments

1789, to July, 1893,

UNDER 72 NUMERICAL SUBDIVISIONS,

SUPPLEMENT TO THE DIGEST OF CYCLES OR VELOCIPEDES WITH ATTACHMENTS, 1789-1891,

ALSO

### Cycle Monthly,

BEGINNING 1892, TO AND INCLUDING JUNE, 1893; WITH THE NUMBER,  
NAME, AND DATE OF THE REFERENCES CITED IN  
THE EXAMINATION OF APPLICATIONS  
BEFORE THE

United States Patent Office,

INCLUDING

INTERFERENCES, THE PARTIES TO THEM, AND THE FINAL DECISION.



COMPILED AND ARRANGED BY  
JAMES T. ALLEN,  
EXAMINER U. S. PATENT OFFICE, " WASHINGTON, D. C.

7-3449

TZ 42°

7-3449

Number of First Patent in Each Calendar Year.

Patents.	Reissues	Patents.	Reissues	Patents.	Reissues
1836. Jly 28.....	1	1856.....	14,099	337.....	171,641
1837.....	110	1857.....	16,324	429.....	15,813
1838.....	546	1858.....	19,010	517.....	108,733
1839.....	1,061	7.....	22,477	643.....	211,078
1840.....	1,465	1860.....	26,642	874.....	8,529
1841.....	1,923	39.....	31,095	1,106.....	223,211
1842.....	2,413	1862.....	34,045	1,253.....	9,017
1843.....	2,901	1863.....	37,266	1,309.....	236,137
1844.....	3,395	1864.....	41,047	1,359.....	251,685
1845.....	3,873	1865.....	45,685	1,344.....	10,264
1846.....	4,348	1866.....	51,784	2,140.....	310,103
1847.....	4,914	91.....	66,658	2,430.....	333,494
1848.....	5,409	105.....	72,959	2,530.....	19,077
1849.....	5,993	128.....	85,593	3,250.....	355,291
1850.....	6,981	158.....	98,160	3,784.....	10,793
1851.....	7,865	184.....	110,617	4,223.....	375,720
1852.....	8,622	187.....	122,304	4,687.....	10,592
1853.....	9,512	229.....	134,504	5,216.....	395,305
1854.....	10,358	258.....	149,120	5,717.....	11,078
1855.....	12,117	286.....	158,350	6,200.....	418,665

Errata.

P. C.
Page, 5. Make Safeties, With or Without Chain, Foot Propelled, read Safeties, Without Chain, Foot Propelled.
Page, 10. Mskc 4,442 read 448,442.
Page, 70. Make 281,633 read 281,933.
Page, 74. After the Caption 357,120 insert the following viz.
References—Huber, 303,285. Aug. 12, 1884.
359,045 Wilson, William J., March 8, 1887, . . . . . 915 415
References—Bruce, 309,193. Dec. 16, 1884.

P. C.
359,745 Smith, William E., March 22, 1887, . . . . . 916 415
References—Butler, 308,747. Dec. 2, 1884. Blackman, 311,803. Feb. 3, 1885. Jefferson, 243,569. June 28, 1881. 882 of 1876. English. Bowen, 328,280. Oct. 13, 1885. Grant, 320,930. June 30, 1885. Vanhout, 313,400. March 30, 1885.

Alphabetical List of Sub-Divisions, Giving Page, Number of Plate, Claim and Reference.

P.	C.	R.	P.	C.	R.	
Alarms—Bells.....	762	286	63	Railroad.....	550	252
Alarms—Whistles.....	762	287	64	Railroad—Elevated.....	984	309
Animal Propelled.....	791	321	66	Rowing.....	597	222
Awnings and Umbrellas.....	789	313	66	Saddles .....	446	329
Ball Bearings—Axles, Cranks, Forks and Pedals.....	580	290	48	Safeties—Drop Frame.....	87	42
Brakes.....	650	196	53	Safeties—Hand Propelled.....	113	54
Children's.....	497	205	41	Safeties—Tandem.....	102	49
Combined Land and Water.....	526	218	44	Safeties—Without Chain, Foot Propelled.....	49	25
Compressed-Air.....	619	171	51	Safeties—with Chain, Foot Propelled.....	1	1
Cotton Picker's.....	792	309	66	Spring Propelled.....	602	314
Couplings for Socials.....	779	277	65	Stands.....	745	263
Cranks.....	677	224	56	Steam.....	619	171
Cycle Monthly, 1892 to July, 1893.....	748	321	93	Steps and Rests.....	782	278
Cyclometers.....	973	973	62	Supports .....	738	239
Designs.....	973	973	92	Supports for Cyclers' Pantaloons .....	786	312
Detached Parts—Backbones, Forks, Heads, etc.....	654	225	53	Suspenders.....	744	263
Electrical.....	619	171	51	Theatre Appliances.....	1047	303
Four Wheels—Foot Propelled.....	426	181	35	Tires .....	986	331
Four Wheels—Hand Propelled.....	398	189	33	Toy .....	514	207
Four Wheels—with Two or More Seats.....	420	188	34	Tricycles .....	632	176
Gas.....	619	171	51	Trade Marks.....	793	173
Gearing.....	713	240	59	Tricycles—Combined Foot and Hand Power.....	214	93
Handles.....	692	265	57	Tricycles—Foot Propelled.....	278	100
Home Trainers.....	784	320	66	Tricycles—Hand Propelled.....	178	79
Hose Patches.....	963	357	91	Tricycles—Oscillating Seat.....	257	80
Hose and Tubing.....	807	435	86	Two Wheels—Seat Inside or at Either Side .....	643	215
Ice and Snow.....	529	199	44	Tricycles—Two Wheels Abreast, Swing Seat.....	266	84
Lanterns and Holders.....	766	288	64	Tricycles—with Two or More Seats.....	224	150
Locks and Locking Attachments.....	769	310	66	Unicycles .....	632	176
Luggage Carriers.....	773	299	65	Uprights—Tandem.....	154	72
Metal Working-Manufacture of Cycle Parts.....	567	304	48	Uprights—Trailing Wheel .....	116	55
Monocycle.....	632	176	52	Uprights—with Pilot Wheel .....	150	75
Oil Can Holders.....	788	313	66	Watch Holders.....	790	288
One-Wheel.....	632	176	52	Water .....	518	210
Pedals.....	621	279	56	Wheels .....	855	303

# INDEX.

*Black Type in the Index, denotes Cycle Monthly, from 1892. to July 1893.*

P.	C.	R.	P.	C.	R.
493,406 Abbott, Francis M.....	383	150	31	459,850 Arney, Frank J.....	550 207
295,330 Ackermann, Henry.....	408	192	33	474,279 Arnold, Clarence R.....	60 34
195,553 Adams, Edwin G.....	620	171	51	419,488 Arnولد, Daniel J. C., and Post, Charles B.	943 427
10,250 (R.) } Adams, Edwin G.....	621	172	51	120,478 Asville, Lewis M.....	792 309
195,553 } Adams, Edwin G.....			408,861 Astbury, John, and Turner, William B.....	478 345	
477,095 Adams, Frederick G., and Henshaw, Francis T.....	85	48	285,946 Astbury, William.....	326 127	
391,770 Adams, Gideon S.....	524	221	100	506,839 Asough, William.....	519 220
496,388 Adams, James W.....	243	151	43	485,678 Ash, Walter V.....	166 96
299,711 Adams, Robert.....	801	405	115	15,214 Ashe, William A.....	987 361
357,138 Addicks, William H.....	242	163	71	481,460 Ashley, Frederick.....	126 73
475,959 Andrews, William.....	75	41	21	93,150 Aspinwall, John A., and Perry, Charles M.	551 252
475,744 Agin, George W.....	74	40	99	9,348 (R.) } Bartlett, William E.....	551 252
450,751 Ahlborn, George.....	1037	388	85	93,159 Bartlett, William E.....	528 46
258,207 Ahlert, Joseph.....	638	178	20	299,317 Aspinwall, John A.....	528 219
257,080 Ahlert, William F., Joseph F., and John G.	638	178	52	417,401 Astor, John J. Jr.....	652 197
433,508 Akers, William P.....	648	217	52	92,689 Atherton, Daniel W.....	225 156
229,659 Albrecht, Wilhelm.....	510	213	53	295,894 Atherton, Fisher C.....	332 120
28,231 Alden, Henry A.....	810	430	42	289,746 Auld, Joseph.....	328 127
28,432 Alden, Henry A.....	811	436	87	91,734 Austin, Jonathan, and Fraser, J.....	634 176
97,853 Alden, Henry A.....	820	439	87	146,159 Avery, George.....	431 183
100,096 Alden, Henry A.....	821	439	88	70,681 Ayer, Charles C.....	858 394
227,085 Alexander, George B., and Gill, Joshua S., Jr.....	302	118	88	91,198 Babitt, B. T., and Holske, William F.....	619 171
92,243 Alexander, H. C.....	515	207	26	352,508 Babitt, Seth William.....	744 263
98,007 Alexander, H. C.....	515	207	26	435,385 Babitt, Seth W.....	487 350
216,639 Allaire, Charles B.....	967	359	22	322,406 Babcock, D. Marshall.....	199 104
336,372 Allridge, Arthur H.....	624	173	42	401,105 Babe, Désiré A.....	88 43
100,244 Allen, Albert F.....	821	439	52	436,453 Backus, Edward.....	771 64
91,061 Allen, Arthur M.....	56	28	51	249,447 Bacon, Fred W.....	120 56
91,896 Allen, Arthur M.....	57	28	88	249,118 Bailey, Fortune L.....	77 41
94,055 Allen, Arthur M.....	59	29	6	309,494 Bailey, Gilbert L.....	740 264
94,050 Allen, Arthur M.....	59	29	6	362,506 Bailey, Howard S., and Hall, Albert, C.....	418 74
94,057 Allen, Arthur M.....	59	29	25	380,012 Bailey, Howard S.....	925 418
103,957 Allen, Arthur M.....	61	29	25	285,205 Bailey, James G.....	325 126
223,661 Allen, Arthur M.....	300	117	6	161,924 Bailey, John J.....	506 211
278,071 Allen, Arthur M.....	883	402	6	75,340 Bailey, Sylvester M.....	533 200
294,178 Allen, Arthur M.....	330	128	26	179,253 Bailey, William H.....	994 363
444,642 Allen, Thomas G., Jr., Sachtleben, William L., and Walters, John F.....	778	302	7	270,866 Ballie Hamilton, Charles R.....	450 330
458,992 Allen, William H.....	962	435	28	288,154 Bain, William B.....	1049 310
115,674 Allen, William, and Bond, John W.....	293	114	33	334,839 Baines, Hugh.....	238 161
89,064 Allgaier, John.....	309	190	79	351,150 Baines, Hugh.....	357 139
106,097 Allgaier, John.....	183	98	79	351,243 Baines, Hugh.....	357 139
424,044 Almond, Thomas R.....	853	454	25	309,641 Baines, Hugh.....	378 147
434,748 Almond, Thomas R.....	853	454	33	375,914 Baird, William J.....	545 204
91,064 Ambler, George B.....	449	329	16	266,016 Baker, Elbridge.....	431 183
21,822 Ames & Frost Co.....	145	145	91	432,591 Baker, Henry H., Jr.....	788 312
372,736 Ames, Emerson.....	379	143	91	439,372 Baker, Henry H., Jr.....	788 312
251,308 Ames, James.....	121	57	36	456,779 Baker, Howard F., Lukin, George B., and Sheldon, John.....	1037 388
447,125 Anck, John M.....	742	262	107	273,007 Baker, James.....	435 184
359,000 Anderson, Charles C.....	365	142	11	462,101 Baker, James H.....	736 251
98,657 Anderson, D. M.....	533	200	62	166,580 Baker, Seth W.....	833 444
461,806 Anderson, John E.....	744	263	44	170,803 Baker, Seth W.....	833 444
91,589 Anderson, Samuel.....	288	112	62	020,220 Baldwin, Orville O., and Miller, Chas. H.....	55 28
310,868 Andrews, Reuben H.....	340	131	24	451,013 Ball, John H.....	1033 385
92,292 Andrews, Solomon.....	288	113	29	212,884 Baltz, Sr., Henry W.....	189 100
95,024 Andrews, Solomon.....	66	29	24	261,290 Bancroft, James, and Wyke, Thomas H.....	516 207
354,600 Andrews, William.....	473	342	6	457,547 Bander, Charles L.....	178 97
371,911 Andrews, William T.....	662	230	39	18,349 Barker & Campbell Co.....	797 797
474,051 Angois, Paul, and Woodhead, Richard M.....	58	34	18	18,349 Barker & Campbell Co.....	798 67
382,311 Amin, Bryant W.....	615	318	98	363,354 Bannhir, Caesar R.....	699 269
461,699 Anthony, Jesse, and Everett, Arthur.....	45	23	51	393,355 Bannhir, Caesar R.....	776 301
274,762 Anthony, Wenöell P., and Handy, Chas. F.	320	125	61	65,633 Bannhir, John.....	530 199
277,974 Anthony, Wendell P.....	714	240	55	449,460 Bannister, Loring H.....	788 313
490,220 Apple, Benjamin J., and Hohenstein, Henry.....	100	117	27	475,174 Barbour, Fred E.....	67 37
362,142 Appleby, John F.....	918	416	59	434,234 Barker, Arthur D.....	24 12
447,099 Archer, Frank, and Bowley, Arthur S.....	83	40	442,938 Barkman, Albert B.....	20 301	
235,399 Arkins, Joseph.....	306	119	110	468,737 Barkman, Albert B.....	20 11
94,999 Armando, A.....	259	90	74	459,150 Barlow, Wilson H.....	962 435
308,729 Arms, George.....	843	448	66	478,487 Barnes, Charles O., and Lucien, Sr.....	66 37
308,730 Arms, George.....	844	448	29	250,483 Barnes, Raymond F., and Hausmann, Max	749 322
416,541 Armstrong, Frank.....	783	279	22	433,739 Barr, Henry G.....	668 234
422,689 Armstrong, Frank.....	579	308	99	457,242 Barr, Henry G., and Peck, Frank E.....	112 533
182,005 Arnao, Juan, and Juan, Jr.....	535	201	99	94,992 Barr, Robert J.....	412 190
289,381 Arnett, John, and Bodifield, Charles T.....	840	447	90	39,192 Barr, Samuel W.....	278 109
			66	292,617 Barr, William C.....	888 404
			48	493,675 Barrett, Edward.....	219 136
			90	34,072 Barrett, Henry J.....	903 410
					72

P.	C.	R.	P.	C.	R.
345,476 Barrett, Henry, and Varley, John J.....	1008	370	81	329,004 Bettendorf, William P.....	906
71,357 Barron, John.....	958	361	79	444,369 Bettendorf, William P.....	941
425,017 Barrow, Louis, and Guest, Charles H.....	17	* 9	2	467,032 Betts, Arlington U., and Deardorff,	426
434,974 Bartlett, William E.....	1024	379	84	Theodore H.....	8
448,793 Bartlett, William E.....	1031	383	85	319,385 Bevan, William.....	5
11,210 (R.) Bartlett, William E.....	1031	383	85	151,954 Bezett, Thomas.....	93
148,793 , Bartlett, William E.....	1031	383	85	187,247 Bickford, Ezekiel C.....	131
466,532 Bartlett, William E.....	1	1	93	10,886 Bidwell, George R., Cycle Company.....	312
369,579 Barton, George A.....	921	417	74	19,326 Bierau, George R.....	66
498,224 Baskerville, Herbert E.....	261	160	117	358,533 Bierau, Theodor.....	268
487,596 Bassett, George R.....	174	106	109	358,590 Bierau, Theodor.....	58
369,224 Batchelder, Edwin F.....	545	204	45	453,540 Bigelow, Frank R.....	268
364,466 Bate, James.....	513	214	42	343,753 Biggs, David G.....	362
499,993 Bates, Sadie M.....	279	160	119	351,873 Biggs, John, and Linley, Charles M.....	73
480,166 Batterby, Arthur J.....	117	67	103	103,354,642 Biggs, John, and Linley, Charles M.....	12
400,727 Baudreau, Leon.....	666	232	55	19,326 Bigelow, Frank R.....	66
372,106 Bayer, Frank J.....	206	105	18	494,752 Bilz, John A.....	30
317,437 Beach, David H.....	561	257	47	466,112 Bingham, John H.....	30
360,209 Beach, Oliver B.....	756	325	63	148,313 Bingham, John H.....	30
366,447 Beach, Oliver B.....	759	327	63	473,816 Binns, William H.....	97
280,558 Beale, John.....	123	58	11	473,817 Binns, William H.....	30
237,235 Bean, John and Roscoe.....	873	398	69	473,818 Binns, William H.....	97
245,434 Bean, John and Roscoe.....	309	120	29	480,061 Birchard, Francis H.....	30
262,171 Bean, John.....	879	400	70	100,448 Bird, James R., and Rider, John P.....	99
265,480 Bean, John and Roscoe.....	880	401	70	114,394 Bird, James R.....	88
268,768 Bean, John and Roscoe.....	880	401	70	207,240 Bishop, George W.....	88
315,995 Bean, Roscoe.....	1002	367	81	69,896 Bitter, Harry.....	212
319,777 Bean, Roscoe, and Grant, Arthur W.....	901	409	72	350,719 Black, David.....	42
341,547 Bean, Roscoe.....	465	337	38	432,814 Black, David.....	91
407,769 Bean, Roscoe.....	939	425	76	311,803 Blackham, George E.....	357
209,953 Beatty, Robert P., and Haulenbeek, John H.....	837	445	89	435,477 Blackledge, Rollin H.....	139
91,702 Beaumont, John C.....	215	93	19	88,126 Blair, John B.....	30
295,333 Beaupain, Louis.....	219	95	19	84,163 Blake, E. K. W.....	27
318,532 Beavis, Arthur J., and Frank S.....	131	01	19	138,845 Blake, Lyman R.....	16
10,290 Beccanion & Keefe.....	800	800	12	143,661 Blake, Lyman R.....	86
86,195 Beck, Joseph.....	266	84	23	450,996 Blakely, William.....	88
100,356 Beck, Joseph.....	527	218	44	450,997 Blakely, William.....	225
464,448 Beck, Samuel H.....	397	156	32	462,205 Blaser, Gustav.....	56
439,095 Becker, Hugo A.....	96	47	9	347,040 Blechschmidt, Gustave, and Hoefer, Her-	238
45,218 Beckers, Alexander.....	812	436	87	man.....	55
256,870 Beckwith, Walter C.....	314	123	27	211,959 Blood, Edwin I.....	413
60,111 Bedford, Wm. G., and White, Thomas R.....	815	438	87	211,960 Blood, Edwin J.....	26
485,572 Beebe, Charles F.....	159	95	107	446,748 Blood, Maurice E.....	117
242,252 Beeger, Carl.....	192	101	17	11,301 (R.) Blood, Maurice E.....	64
233,396 Beeger, Carl.....	261	99	22	446,748 Blood, Maurice E.....	30
429,715 Beer, Carl, and Bond, Richard.....	359	152	32	453,113 Blood, Maurice E.....	65
379,849 Behr, Hermann.....	641	179	52	480,760 Blood, Maurice E.....	104
396,349 Behr, Hermann.....	642	180	52	481,890 Blood, Maurice E.....	105
358,531 Behringher, Charles (See Errata).....	915	415	74	482,938 Blood, Maurice E.....	80
424,452 Beiersmith, Peter J.....	1023	378	83	483,360 Blossfeld, Emil.....	105
467,245 Beilden, Frank E.....	7	4	93	323,289 Blount, John G.....	23
443,266 Bell, Horace.....	669	235	55	275,970 Blume, Herman.....	77
296,307 Bell, John E.....	889	404	71	484,142 Blundstone, Benjamin.....	34
141,536 Bellemere, John F., and Fleer, Francis R.....	965	358	91	462,013 Blundstone, Benj., and Moseley, Joseph.....	86
443,890 Belyea, James C.....	445	187	36	475,732 Blundstone, Benjamin, and Moseley,	391
499,240 Bendure, Wm. H., and Tilbery, Scott.....	191	110	Joseph.....	73	
374,287 Benfield, Thomas.....	782	278	66	331,113 Bock, Anton H.....	40
379,557 Benfield, Thomas.....	782	278	66	333,592 Bock, Anton H.....	99
277,870 Benham, William P.....	603	265	57	169,774 Bodel, Louis G., Masse, Jacques, and....	228
310,776 Benham, William P.....	695	265	57	Webster, William.....	54
376,401 Benjamin, George H., and Wilder, Francis M.....	849	452	91	289,381 Bodifield, Charles T., and Arnett, John.....	19
478,838 Bennage, William D.....	105	60	102	35,583 Bögel, Henry.....	93
473,995 Bennett, Noble E.....	58	33	08	396,262 Boland, Hamilton.....	40
399,475 Benster, Emory M.....	936	424	76	417,977 Bolick, Jerome.....	287
399,063 Bentley, Charles E.....	730	248	61	443,815 Bolte, Frank H.....	64
385,087 Benz, Carl.....	626	173	51	447,933 Bolte, Frank H.....	235
386,798 Benz, Carl.....	627	173	51	457,834 Bolte, Frank H.....	55
159,504 Bergeron, Michel, and Crother, Edwin.....	260	90	22	457,835 Bolte, Frank H.....	40
473,493 Bergfels, Henry.....	50	28	97	476,974 Bolte, Frank H.....	355
480,838 Bergfels, Henry.....	121	69	104	476,975 Bolte, Frank H.....	40
490,097 Bergfels, Henry.....	190	117	109	479,201 Bolte, Frank H.....	100
91,510 Berger, Georg.....	633	176	52	479,202 Bolte, Frank H.....	56
496,971 Berlo, Peter, and Fairbanks, Albert C.....	252	155	116	479,203 Bolte, Frank H.....	102
243,105 Bernhard, Charles.....	538	202	45	499,707 Bolte, Frank H.....	118
295,719 Bernhard, Charles.....	540	202	45	500,368 Bolte, Frank H.....	119
302,090 Bernhard, Charles.....	197	103	17	Bolton, John Jr.....	282
329,003 Berrell, George B.....	612	317	51	115,674 Bond, John W., and Allen, William.....	114
499,956 Berry, David R.....	279	166	109	149,713 Bond, Richard, and Beer, Carl.....	25
494,839 Berry, Leander.....	227	142	114	186,136 Bonfils, Paul, and Katon, Walter.....	32
479,969 Berry, Wm. R., and Wright, David D.....	116	66	103	68,344 Bonnafion, Glaucus II.....	28
495,293 Bertoux, Jean.....	231	144	114	379,812 Boothroyd, Isaac W., and Renouf, Philipp.....	5
433,193 Best, Daniel.....	951	439	78	I. C. F.....	6
325,585 Bettendorf, William P.....	905	411	73	90,489 Boris, P. J.....	231

	<i>P.</i>	<i>C.</i>	<i>R.</i>		<i>P.</i>	<i>C.</i>	<i>R.</i>
21,967 <b>Boston Woven Hose and Rubber Company</b> .....	163	164	108	497,116 <b>Brown, William G.</b> .....	253	155	116
478,735 <b>Boswell, George G.</b> .....	103	58	102	94,068 <b>Browne, A. W.</b> .....	604	314	50
438,830 <b>Botsford, Frederick G.</b> .....	854	454	91	215,879 <b>Browne, James E.</b> .....	216	94	19
459,926 <b>Boitoff, Andrew J.</b> .....	985	309	79	249,300 <b>Browne, James E.</b> .....	65	30	7
356,095 <b>Bouck, Charles A.</b> .....	140	66	13	309,193 <b>Bruce, William J.</b> .....	789	314	66
385,403 <b>Boudreau, Leon.</b> .....	473	343	39	331,374 <b>Brueger, Abraham, Jr.</b> .....	846	450	90
463,825 <b>Boudreau, Leon.</b> .....	670	239	56	334,510 <b>Brueger, Abraham, Jr.</b> .....	847	450	90
495,777 <b>Bouyer, Pierre</b> .....	236	146	115	359,126 <b>Brusie, James</b> .....	140	66	13
207,489 <b>Bourguignon, Wendell</b> .....	836	445	89	359,127 <b>Brusie, James</b> .....	140	66	13
80,901 <b>Bourn, Augustus O.</b> .....	817	438	87	249,166 <b>Bryant, Henry E., and Fielding, Geo. W.</b> .....	877	400	70
469,227 <b>Bouse, William G.</b> .....	24	13	95	439,382 <b>Bryden, William L.</b> .....	212	108	19
328,280 <b>Bowen, Ephraim N.</b> .....	905	411	73	199,409 <b>Buchanan, Alonzo M.</b> .....	431	183	35
445,710 <b>Bowen, Ephraim N.</b> .....	747	265	62	444,086 <b>Buckton, Albert R.</b> .....	955	432	78
399,854 <b>Bowers, Richard E.</b> .....	277	89	23	265,751 <b>Buddenberg, Henry C.</b> .....	194	102	17
384,120 <b>Bowers, Walter T.</b> .....	700	290	64	331,270 <b>Buell, Charles E.</b> .....	623	173	51
442,948 <b>Bowlery, Arthur S.</b> .....	1020	382	84	90,723 <b>Buell, George C.</b> .....	56	28	6
447,099 <b>Bowley, Arthur S., and Archer, Frank.</b> .....	83	40	8	21,458 <b>Buffalo Wheel Company</b> .....	109	109	103
294,753 <b>Bowa, Albert.</b> .....	210	95	19	1,508 <b>Bulkley, Ralph.</b> .....	963	357	91
495,661 <b>Bowin, William, and Hughes, Joseph H.</b> .....	234	145	114	495,014 <b>Bull, Willie S.</b> .....	220	143	114
502,468 <b>Boyd, Horace B.</b> .....	283	172	119	495,015 <b>Bull, Willie S.</b> .....	229	143	114
452,593 <b>Boyd, James McD.</b> .....	653	199	53	478,504 <b>Bullard, Frederick H., and Harrington, John, Frank.</b> .....	101	57	102
25,239 <b>Boyd, John C.</b> .....	809	435	87	433,818 <b>Bullard, James H.</b> .....	28	14	3
5-731 (R.) <b>Boyd, John C.</b> .....	810	436	87	438,344 <b>Bullard, James H.</b> .....	140	82	105
53,214 <b>Bradford, Charles K.</b> .....	602	314	50	466,598 <b>Bunker, William I.</b> .....	3	2	93
83,935 <b>Bradford, Charles K.</b> .....	278	109	23	469,624 <b>Bunker, William I.</b> .....	25	14	95
477,292 <b>Bradley, James</b> .....	88	49	100	471,417 <b>Bunker, William I.</b> .....	36	20	96
21,068 <b>Bradshaw Manufacturing Company</b> .....	62	62	100	477,502 <b>Bunker, William I.</b> .....	89	50	101
427,662 <b>Brady, Frank.</b> .....	564	257	47	477,503 <b>Bunker, William I.</b> .....	89	50	101
447,935 <b>Brady, Frank.</b> .....	565	258	47	477,504 <b>Bunker, William I.</b> .....	90	50	101
462,908 <b>Brady, Frank.</b> .....	565	258	47	477,505 <b>Bunker, William I.</b> .....	90	50	101
473,609 <b>Brampton, Walter</b> .....	51	29	97	477,506 <b>Bunker, William I.</b> .....	90	50	101
283,667 <b>Bramham, Alvin J.</b> .....	540	202	45	488,061 <b>Bunker, William I.</b> .....	176	107	109
112,116 <b>Branning, David L.</b> .....	748	321	62	499,009 <b>Bunker, William I.</b> .....	270	164	118
222,861 <b>Brasch, Carl.</b> .....	509	213	42	94,559 <b>Bunn, Lewis D.</b> .....	518	220	43
428,881 <b>Braunfeld, Henry E.</b> .....	733	250	61	352,989 <b>Burke, Edward S.</b> .....	645	216	53
250,634 <b>Bray, James B.</b> .....	539	202	45	355,253 <b>Burdess, Adam</b> .....	362	141	30
Breed, Samuel D. ....	807	435	86	364,335 <b>Burdess, Adam</b> .....	660	229	54
452,336 <b>Brettemoser, Joseph</b> .....	640	218	53	420,927 <b>Burgess, William D., and Munz, Theo.</b> .....	944	427	77
21,103 <b>Bretz &amp; Curtis Manufacturing Co.</b> .....	65	65	100	234,954 <b>Burin, Henri B.</b> .....	527	218	44
457,861 <b>Bretz, Jacob S.</b> .....	960	434	79	234,954 <b>Burin, Henri B.</b> .....	449	330	36
478,394 <b>Bretz, Jacob S.</b> .....	100	56	101	252,504 <b>Burley, Franklin G.</b> .....	461	335	37
404,771 <b>Breux, Joseph F.</b> .....	73	34	7	264,855 <b>Burley, Franklin G.</b> .....	228	157	20
485,360 <b>Breyer, Johannes F.</b> .....	157	94	107	326,940 <b>Burley, Franklin G.</b> .....	639	179	52
247,156 <b>Bridgman, Henry C.</b> .....	193	101	17	299,617 <b>Burlinghausen, Bernerd G.</b> .....	32	18	96
452,562 <b>Briggs, Frank.</b> .....	618	320	51	439,922 <b>Burnap, Chas. E., and Wood, Ellery W.</b> .....	66	47	9
444,519 <b>Briggs, Franz S.</b> .....	956	432	78	133,560 <b>Burnham, George L.</b> .....	825	441	88
317,494 <b>Briggs, George S.</b> .....	900	409	72	87,933 <b>Burns, Jabez</b> .....	280	110	23
458,204 <b>Briggs, Henry</b> .....	149	70	14	299,733 <b>Burns, Robert</b> .....	752	323	63
233,723 <b>Britten, Henry W.</b> .....	118	56	11	324,749 <b>Burroughs, John W.</b> .....	612	317	50
353,917 <b>Britton, Rodney G.</b> .....	350	140	30	248,908 <b>Burstow, Edward</b> .....	433	183	35
439,107 <b>Brock, William E.</b> .....	389	152	32	338,557 <b>Burton, George D.</b> .....	590	295	49
441,820 <b>Bromley, Joseph E., and Straus, Alex.</b> .....	1027	381	84	470,317 <b>Burton, Thomas</b> .....	32	18	96
459,792 <b>Brooks, Frederick</b> .....	493	354	40	467,914 <b>Burwell, George A.</b> .....	15	9	94
329,396 <b>Brooks, Henry O.</b> .....	754	323	63	483,090 <b>Burwell, George A.</b> .....	146	86	106
365,043 <b>Brooks, Henry O.</b> .....	758	327	63	486,556 <b>Burwell, George A.</b> .....	168	101	108
401,123 <b>Brooks, John B.</b> .....	475	343	39	496,064 <b>Burwell, Geo. A., and Moore, Chas. J.</b> .....	246	153	116
421,233 <b>Brooks, John B.</b> .....	483	347	39	496,665 <b>Burwell, Geo. A., and Moore, Chas. J.</b> .....	246	153	116
484,289 <b>Brooks, John B.</b> .....	147	87	106	505,648 <b>Buschman, Victor H.</b> .....	215	93	19
484,290 <b>Brooks, John B.</b> .....	147	87	106	155,569 <b>Bush, William</b> .....	187	99	16
435,739 <b>Brooks, John D.</b> .....	212	108	19	164,902 <b>Bush, William</b> .....	295	115	25
329,612 <b>Brooks, Samuel T.</b> .....	969	359	92	270,737 <b>Butcher, Joseph</b> .....	751	322	62
472,442 <b>Brooks, William S.</b> .....	44	25	97	300,568 <b>Butcher, Joseph</b> .....	762	286	63
473,887 <b>Brosnan, Cornelius J.</b> .....	55	31	98	335,349 <b>Butcher, Joseph</b> .....	755	324	63
116,409 <b>Brown, Adna</b> .....	184	99	16	355,828 <b>Butcher, Joseph</b> .....	756	324	63
474,580 <b>Brown, Alexander T.</b> .....	63	36	98	357,758 <b>Butcher, Joseph</b> .....	756	324	63
484,494 <b>Brown, Alexander T., and Stillman, George F.</b> .....	180	111	110	478,086 <b>Butcher, Joseph</b> .....	97	55	101
302,970 <b>Brown, Charles M.</b> .....	694	266	57	508,747 <b>Butler, Alonso E.</b> .....	897	407	72
281,580 <b>Brown, Fernando, and Talbot, Frank H.</b> .....	766	288	84	28,647 <b>Butler, John</b> .....	811	436	87
555,573 <b>Brown, Frederic W.</b> .....	725	245	60	438,526 <b>Butler, Maguler</b> .....	772	311	64
429,416 <b>Brown, Harry H.</b> .....	710	275	59	486,146 <b>Butler, William H., and Westwood, Frederick</b> .....	164	99	107
393,417 <b>Brown, Harvey</b> .....	70	33	7	91,602 <b>Butterfield, Abner L.</b> .....	182	98	16
468,721 <b>Brown, Harvey</b> .....	20	11	95	491,335 <b>Bussye, Edward</b> .....	202	127	112
499,627 <b>Brown, James A.</b> .....	275	166	118	69,403 <b>Buzzell, John G.</b> .....	858	394	68
256,118 <b>Brown, James O.</b> .....	313	122	27	82,690 <b>Buzzell, John G.</b> .....	860	394	68
10,307 (R.) <b>Brown, James O.</b> .....	314	122	27	98,920 <b>Buzzell, John G.</b> .....	862	395	68
256,118 } <b>Brown, James O.</b> .....	314	122	27	478,724 <b>Cable, Frank D., and Tuttle, John H.</b> .....	103	58	102
264,133 <b>Brown, James O.</b> .....	997	365	80	485,583 <b>Cable Frank D., and Kenney</b> .....	159	95	107
60,335 <b>Brown, John H.</b> .....	501	210	41	496,626 <b>Cable Frank D., and Kenney</b> .....	222	139	114
485,605 <b>Brown, Kirk</b> .....	159	95	107	494,408 <b>Cable, Frank D.</b> .....	226	142	114
356,028 <b>Brown, Nathaniel</b> .....	276	88	23	494,803 <b>Cable, Frank D.</b> .....	227	142	114
446,181 <b>Brown, Seth A.</b> .....	671	236	55	494,804 <b>Cable, Frank D.</b> .....	231	144	114
209,856 <b>Brown, Thomas</b> .....	871	398	69	495,391 <b>Cable, Frank D.</b> .....	231	144	114

	P.	C.	R.		P.	C.	R.
496,681 Cable, Frank D.	247	154	116	106,780 Clime, John C.	429	182	35
405,159 Cain, Harry A.	790	288	66	125,273 Clime, John C.	430	182	35
85,630 Callaghan, Cornelius	214	93	19	345,003 Clime, John C.	261	90	22
496,336 Callaghan, William S.	242	149	115	426,524 Clough, John, and Carter, George	733	250	61
197,245 Callahan, Cornelius	835	445	89	366,620 Clouse, Joseph N.	920	417	74
209,559 Callahan, Cornelius	836	445	89	433,884 Clouse, Joseph N.	390	153	32
218,661 Callahan, Cornelius	837	445	89	449,203 Clouse, Joseph N.	957	433	78
222,770 Callahan, Cornelius	838	446	89	400,333 Coates, Robert	743	262	62
278,312 Callahan, Cornelius	840	447	89	475,384 Cockburn, John	69	38	99
477,642 Calver, Washington I.	84	47	100	123,804 Coe, Lawrence W.	619	171	51
18,348 Campbell & Bunker Co.	797	797	67	495,218 Coe, William J.	230	144	114
18,349 Campbell & Bunker Co.	798	798	67	497,065 Coffin, George H.	252	155	116
249,895 Campbell, Omer F., and Prindle, Frank L.	554	254	46	319,130 Coffin, John F., and Rudling, William A.	131	61	12
260,840 Candler, Claude H., and Whitehead, James	218	95	19	107,226 Coffin, Mark	64	30	6
363,887 Canfield, Charles G.	910	416	74	89,128 Cohu, Henry S.	632	176	52
478,918 Cannon, Clinton D.	106	60	102	95,325 Coleman, William H.	60	29	6
302,909 Cardona, Joseph	231	158	20	83,132 Colegs, George, Jacques, James A., and Fan-			
364,886 Carmont, William H.	1012	372	82	370,450 Collicutt, George M.	1	1	1
76,049 Carney, Andrew	817	438	87	402,143 Colling, Charles J.	707	274	59
434,641 Carpenter, Arsene	952	431	78	474,215 Collins, Charles M.	60	34	98
250,644 Carpenter, James	877	400	70	230,176 Collins, Henry C., Collins, Daniel H., and			
482,771 Carr, Chas. A., and Openshaw, Geo.	133	77	105	105 Tuttle, John W. T.	393	118	26
273,815 Carr, Jerome S.	643	215	53	64,285 Collins, Patrick H.	604	357	91
300,046 Carr, Robert S.	891	405	71	259,009 Collins, Paul E.	316	123	27
310,452 Carr, Robert S.	901	409	72	376,073 Collier, Charles L.	563	257	47
178,695 Carsens, Heinrich, W. F.	620	171	51	481,762 Colman, Frank B., and Ives, John F.	129	75	104
398,228 Carsentes, Larns F.	729	247	61	378,496 Conley, Joseph F.	739	260	61
422,773 Carsentes, Larns F.	595	298	49	233,910 Colony, Myron	520	220	43
354,535 Carter, Anson A.	170	81	15	407,083 Colthar, William U.	6	4	93
420,524 Carter, George, and Clough, John.	733	250	61	93,967 Combs, A.	504	210	41
388,049 Carter, Hector M.	689	283	57	491,010 Comstock, Harry	198	124	111
450,001 Carter, James	265	93	22	388,763 Conger, Milton M.	642	180	52
88,366 Case, J. M.	258	90	22	19,178 Conklin, John E.	515	207	42
23,162 Central Cycle Manufacturing Company			10,213 (R.)	Conkling, John E.	515	207	42
433,720 Chace, Albert F.	263	265	117	19,1,278 } Conkling, John E.	257	171	22
78,260 Chaffee, Edwin M.	211	108	18	452,541 Connor, Thomas R. and Thomas D.			
150,481 Chaffee, Edwin M.	817	438	87	31,872 Conover, Jacob A., and Crandall, Benja-			
449,281 Challiner, Charles	1031	383	88	min P.	498	208	41
467,769 Challiner, Charles	13	8	85	306,001 Cook, John H.	500	256	47
468,616 Chamberlain, Edgar	17	10	94	304,993 Cook, William	469	339	38
499,425 Chamberlain, George D.	193	119	111	152,214 Cooke, Augustus	294	114	25
499,044 Chamberlain, George D., and Selden Edward G.			10,050 Cooke, Howard E.	294	115	25	
402,304 Chapin, Horatio P.	270	164	118	479,050 Cooke, Howard E.	106	60	102
323,635 Chapin, William H.	783	279	66	261,136 Cooley, B. Frank	655	226	53
391,882 Chapman, George J.	1003	368	81	271,799 Coomans, Felix A.	527	219	44
329,362 Chapman, Herman L.	220	96	3	491,120 Cooper, Frederick, Keen, John, and Mar-			
441,627 Chappell, George H.	176	84	19	1,2406 Cooper, George E., Herbert, William H.,	203	128	112
284,612 Charsley, Robert H.	322	126	16	16, and Hillman, William	794	794	67
53,572 Chase, William K.	398	189	28	19,858 Cooper, George B., Herbert, William H.,			
420,563 Cheever, Henry D.	852	453	33	19,858 Cooper, George B., Herbert, William H.,			
86,504 Cheever, John H.	989	362	91	16, and Hillman, William	802	802	67
53,161 Cheney, Merick L., and McAuley, Thomas	814	437	67	261,136 Cooper, Montraville	259	160	117
382,351 Cherry, Mather A.	249	166	87	286,000 Cooper, Montraville	326	127	28
465,693 Children, Edwin	963	435	21	358,960 Copeland, James S.	659	229	54
81,603 Christian, Andrew	502	210	79	364,632 Copeland, James S.	660	229	54
87,245 Christian, Andrew, and Reinhart, John	427	182	41	371,368 Copeland, James S.	700	270	58
108,067 Christian, Andrew	403	191	35	371,432 Copeland, James S.	701	271	58
263,857 Church, James	434	183	33	385,847 Copeland, James S.	375	146	31
248,709 Churchill, Lucius R.	120	56	33	391,947 Copeland, James S.	250	168	22
328,767 Cilley, John H.	237	160	11	412,322 Copeland, James S.	651	197	53
358,730 Cilley, John H.	243	164	21	469,026 Copeland, James S.	26	15	95
338,434 Clair, Joshua R.	908	412	21	484,492 Copeland, James S.	149	88	106
420,036 Clark, Alexander H.	75	35	23	492,740 Copeland, James S.	207	129	112
486,432 Clark, Alexander H.	165	100	8	492,740 Copeland, James S.	212	132	112
46,295 Clark, Anthony	813	436	87	360,760 Copeland, Lucius D.	624	173	51
192,055 Clark, George P.	995	364	80	312,332 Copps, Charles H.	561	257	47
128,211 Clark, Jerome	864	395	68	327,770 Copps, Charles H.	462	335	37
260,010 Clark, Joseph	881	401	70	350,868 Copper, Luther S.	466	338	38
94,565 Clark, William B.	268	85	23	351,251 Copper, Luther S.	466	338	38
334,164 Clarke, Charles M.	463	336	38	448,774 Copper, Luther S.	490	352	40
43,342 Class, Philip	140	82	105	20,678 Copps, Charles	983	983	93
488,539 Claus, Hubert	181	111	110	443,499 Corana, Stephen, and Kuolt, Joseph	549	206	46
433,852 Claussen, Alexander E.	223	97	18	453,039 Cornelius, Wilbur F.	491	352	40
431,223 Claypool, Albert	1024	379	84	345,864 Cornelius, Wilbur F.	40	20	4
389,200 Clegg, Wesley	5	3	1	345,864 Cornelius, Wilbur F.	992	363	80
427,048 Clegg, Wesley	21	10	2	345,864 Cornelius, Wilbur F.	995	304	80
468,643 Clement, Felix	18	10	94	180,847 Cornwall, George	994	363	80
304,504 Clemson, William	127	60	12	187,102 Cornwall, George			
316,009 Clemson, William	130	61	12	343,414 Coudyser, Adolph	675	239	50
324,356 Clemson, William	685	281	56	325,591 Coulthaus, Joseph A.	516	208	42
86,906 Clime, John C.	427	182	35	348,610 Courtney, Charles E.	846	449	90
96,396 Clime, John C.	290	113	24	450,682 Cowan, Thomas, and Evans, Walter A.	599	223	50
					395	155	32

	P.	C.	R.		P.	C.	R.
344,250 Cowen, Robert.....	847	457	90	109,408 Daney, John C., Stuart, Reuben, and Hatchett, Daniel.....	429	182	35
495,454 Cowen, Robert, and Cummings, Henry H.....	232	145	114	449,944 Danzenbaker, Howe E.....	26	13	3
497,634 Cowen, Robert.....	157	116	116	485,739 Darling, Robert F.....	160	96	107
89,293 Cowles, Edwin, and Metten, George R.....	55	27	6	68,474 Daroizir, Levi.....	533	200	44
271,800 Cox, John J.....	218	95	19	171,959 Dart, Isaac.....	42	23	96
279,541 Cox, Lorenzo D.....	195	102	17	420,145 Davenport, Charles R.....	14	8	2
466,989 Cox, Marion W.....	6	4	93	215,333 Davenport, Nelson.....	553	253	40
377,801 Crampton, James.....	849	452	91	295,364 Davidson, George L. O.....	230	158	20
31,872 Crandall, Benjamin P., and Conover, Jacob A.....	498	208	41	486,542 Davies, Preston.....	182	112	110
79,553 Crandall, Benjamin P.....	398	189	33	488,070 Davies, Preston.....	320	125	27
3,207 (R.) Crandall, Benjamin P.....	399	189	33	270,786 Davies, Thomas A.....	107	101	108
79,553 } Crandall, Benjamin P.....	399	190	33	269,936 Davies, Thomas A.....	196	103	17
9,096 (R.) } Crandall, Benjamin P.....	399	190	33	260,937 Davies, Thomas A.....	196	103	17
79,553 } Crandall, Benjamin P.....	399	190	33	93,007 Davis, D. P.....	861	395	68
92,273 Crandall, Benjamin P.....	401	190	33	410,751 Davis, George H.....	11	6	2
31,302 Crandall, Jesse A.....	498	208	41	379,373 Davis, Henry A.....	143	67	13
99,166 Crandall, Jesse A.....	402	190	33	86,652 Davis, James.....	819	438	87
160,575 Crandall, Jesse A.....	406	192	33	499,870 Davis, James E.....	279	169	119
118,605 Crandall, Jesse A.....	185	99	16	224,153 Davis, Percy L.....	116	55	11
199,518 Crandall, Jesse A.....	507	211	42	148,422 Davis, Robert W. and Daniel.....	865	390	68
436,505 Crandall, Jesse A.....	77	36	8	151,364 Davis, Robert W.....	866	390	68
359,723 Crandall, William E.....	513	214	42	478,187 Davis, Whitney C.....	99	55	101
255,559 Crane, Moses G.....	66	30	7	292,545 Davis, William H.....	683	280	56
481,476 Cranmer, William S.....	126	73	104	581,116 Davis, Willis.....	514	215	42
499,056 Cranston, James F.....	275	167	118	488,026 Davison, Augustine C.....	182	111	110
498,172 Craven, Charles M., and Kortright, George W.....	260	160	117	478,715 Davol, William C., Jr.....	904	358	91
444,130 Crawford, Harvey F., and Lambert, Richard C.....	631	175	52	165,487 Day, Charles M.....	535	201	45
444,131 Crawford, Harvey F., and Lambert, Richard C.....	631	175	52	344,442 Day, George H.....	1007	370	81
421,557 Crawford, Robert S.....	690	284	52	388,180 Day, George H.....	783	279	66
400,705 Creelius, Louis J.....	939	425	76	41,150 Day, Horace H.....	808	435	86
473,728 Creelius, Louis J.....	52	30	97	7,650 Day, Horace H., and McMullen, Richard.....	808	435	86
398,945 Credlebaugh, Henry S.....	776	301	65	284,742 Day, Samuel and Reason.....	885	403	70
335,448 Crispin, Thomas.....	510	207	42	57,96,208 Dayton, Charles E.....	60	29	6
194,416 Croft, Matthew E.....	298	116	52	467,352 Deardorff, Theodore H., and Betts, Arlington.....	8	5	93
224,397 Crook, Charles.....	908	359	92	381,763 Dearlove, Joseph H., and Thresher, Harry.....	374	145	31
486,630 Crook, William H.....	168	102	108	415,995 De Beaufieu, George.....	127	59	12
472,473 Crooker, William W.....	43	25	97	416,995 De Bogory, Progore P.....	942	426	77
487,473 Crosby, George S.....	173	105	109	465,302 Decker, Thomas O.....	47	24	5
170,994 Crosby, Giles H.....	869	397	69	309,933 Deering, James A.....	349	131	29
500,472 Cross Edward S.....	283	172	119	306,813 DeGray, Abram M.....	896	407	72
75,531 Crossley, William G.....	526	218	44	327,301 De La Rue, Jules M.....	518	219	43
159,564 Crother, Edwin, and Bergeron, Michael.....	260	90	22	222,022 Denham, Perry.....	185	99	16
310,649 Crowden, Charles T., and Pausey, Herbert J.....	102	50	10	228,635 Delescalle, Peter.....	880	401	70
244,742 Crowell, John S.....	876	399	69	224,242 Demarest, Francis M.....	765	287	64
295,150 Crowley, Daniel.....	230	158	29	425,993 De Mars, Magloire.....	947	429	77
296,680 Crowley, Daniel.....	196	102	17	427,301 Denning, Charles G.....	948	429	77
323,640 Crowley, Daniel.....	343	133	29	222,022 Denning, Perry.....	190	100	17
307,025 Crowley, Daniel.....	222	90	19	427,301 Denning, Peter Sr.....	948	429	77
476,157 Crull, Solomon F., and Moore, Thos. C.....	77	42	99	228,635 Denning, William B.....	321	125	27
472,570 Cubbage, Charles A.....	45	26	97	286,593 Deputy, Jessie J.....	272	86	23
213,109 Culver, Newton H., and Hinckley, Hermon.....	189	100	17	349,145 Deputy, Martin M., and Wm. B.....	203	104	18
305,053 Cumming, John F.....	598	223	50	22,801 Derby Cycle Company.....	232	233	115
87,913 Cummings, Charles.....	860	394	68	420,593 Derozier, Louis.....	420	181	35
495,454 Cummings, Henry H., and Cowen, Robert.....	232	145	114	458,603 Devore, Levi M., and Forry, Chas. E.....	181	111	110
383,214 Cummings, Michael J.....	1015	374	82	314,520 Dewese, James E.....	899	408	72
307,021 Cummings, Patrick H.....	866	407	72	281,468 Dewell, Samuel.....	751	322	62
393,218 Cummings, Patrick H.....	933	422	76	447,540 De Wolfe, Edward R.....	761	328	63
491,040 Cummings, Theodore.....	198	124	111	447,540 De Wolfe, Edward R.....	492	353	40
315,743 Curtis, Seth.....	522	221	43	458,710 De Wolfe, Edward R.....	761	328	63
401,739 Curtis, Seth.....	524	221	43	460,714 De Wolfe, Edward R.....	1042	391	86
255,775 Curtis, Andrew F.....	122	57	11	466,556 De Wolfe, Edward R.....	2	1	93
471,975 Curtis, Albert B., and Perkins, Albert.....	34	19	96	471,813 De Wolfe, Edward R.....	40	22	96
348,891 Curtis, Henry J.....	355	138	30	480,400 De Wolfe, Edward R.....	118	67	103
431,740 Curtis, Henry J.....	795	320	66	472,528 DeWitt, William H.....	45	26	97
476,253 Curtis, Wallace B., and Long, Eugene.....	79	43	100	478,415 DeWitt, William H.....	100	57	101
447,145 Cushman, George W.....	661	285	57	485,094 Dey, Harry E., and Griswold, Frederick B.....	152	91	106
478,092 Cushman, Joseph W.....	97	55	101	473,829 Diamond, James.....	53	30	98
499,718 Cutler, Henry.....	277	168	118	319,682 Dixie, Lindsey.....	199	103	18
83,660 Cutter, D. N.....	180	97	16	80,977 Dickinson, Alfred S., and Doty, C. J.....	284	111	24
436,403 Curtis, D. N.....	776	301	65	450,997 Dixie, Charles A.....	84	40	8
347,160 Daimler, Gottlieb.....	543	204	45	91,829 Dillaha, John G.....	634	177	52
376,638 Daimler, Gottlieb.....	625	173	51	93,656 Dillaha, John G.....	401	190	33
155,183 Dale, John H., and Henderer, Edmund.....	186	99	16	325,823 Dillon, James M.....	345	133	29
488,988 Dalisch, Oscar.....	185	113	110	432,381 Dillon, William H.....	732	250	61
445,118 Dallmer, Albert, and Krieger, Julius.....	712	276	59	143,813 Dimmick, Daniel.....	865	396	68

	P.	C.	R.		P.	C.	R.
105,251 Dingee, Montgomery, and Roberts, Samuel D.....	505	210	41	402,313 Duryea, Charles E.....	475	344	39
345,218 Dion, Peter.....	910	412	73	432,124 Duryea, Charles E.....	23	11	3
366,464 Dion, Peter.....	920	417	74	432,125 Duryea, Charles E.....	486	349	39
138,486 Dismer, George.....	495	191	33	459,699 Duryea, Charles E.....	691	285	57
362,612 Dobbins, Edwin A.....	768	289	64	459,699 Duryea, Charles E.....	1041	399	86
148,428 Dodge, George P.....	828	442	88	493,488 Duryea, Charles E.....	217	135	113
148,677 Dodge, Theodore A.....	828	442	88	466,664 Dustin, Frank J.....	779	303	65
150,304 Dodge, Theodore A.....	829	442	88	362,883 Dutemple, William R.....	737	325	63
150,617 Dodge, Theodore A., and Street, Edward A.....	830	443	88	277,246 Dutrow, David E.....	261	90	22
384,134 Donkel, Lloyd H.....	438	185	36	295,561 Dutrow, David E.....	331	129	28
384,135 Donkel, Lloyd H.....	928	420	75	477,176 Duryea, Wright.....	991	362	80
425,934 Donkel, Lloyd H.....	947	429	77	439,492 Dyre, William E.....	713	240	59
396,699 Dommeroy, Rudolph W.....	935	423	76	479,792 Eager, William, A W.....	633	176	52
404,692 Dommeroy, Rudolph W.....	1020	377	83	314,444 Eames, Elisha D.....	795	288	64
447,234 Donnelly, Samuel A.....	31	16	3	404,693 Easthope, Alfred.....	844	449	90
448,504 Donnelly, Samuel A.....	596	299	50	423,471 Easthope, Alfred.....	9	5	1
297,238 Dopp, Frederick J. W., and Wolff, Geo.....	334	130	28	89,567 Eaton, Elijah.....	492	45	9
408,568 Dorchester, Edward G.....	17	9	94	406,143 Eckenerth, Geo., and Rullmann, John D.....	514	207	42
472,786 Dorchester, Edward G.....	46	26	97	43,629 Eddy, John B.....	263	92	22
477,618 Dorchester, Edward G.....	85	47	100	449,111 Edelstein, Joseph.....	479	345	39
417,550 Döring, Emil, and Siegert, Friedrich A.....	739	200	61	486,191 Edlin, Robert.....	594	155	32
424,864 Döring, Emil, and Siegert, Friedrich A.....	740	261	61	486,191 Edlin, Robert.....	104	99	108
469,519 Dorr, George W.....	25	14	95	25,303 Edwards, Elias.....	194	162	17
89,977 Doty, C. J., and Dickinson, Alfred S.....	284	111	24	442,871 Edwards, William J.....	433	183	35
107,345 Douglas, Charles H.....	533	200	44	448,739 Edwards, William J.....	98	48	9
269,295 Douglas, Frank.....	24	14	95	466,134 Edwards, William J.....	499	351	40
467,342 Douglas, Frank.....	8	4	93	469,588 Edwards, William J.....	49	25	3
467,343 Douglas, Frank.....	8	5	93	470,181 Edwards, William J.....	31	18	96
467,344 Douglas, Frank.....	8	5	93	475,207 Edwards, William J.....	67	37	99
469,339 Douglas, Frank.....	24	14	95	475,444 Edwards, William J.....	69	38	99
469,627 Douglas, Frank.....	26	15	95	475,445 Edwards, William J.....	69	38	99
469,628 Douglas, Frank.....	26	15	95	491,162 Edwards, William J.....	201	127	111
469,629 Douglas, Frank.....	27	15	95	444,341 Egg, Gustave A.....	735	251	61
409,630 Douglas, Frank.....	27	15	95	444,341 Egg, Gustave A.....	735	251	61
472,341 Douglas, Frank.....	43	25	97	481,393 Egg, Frederick.....	125	72	104
496,641 Douglas, Frank.....	246	153	116	107,888 Egger, John.....	292	114	25
363,215 Downes, Moses H.....	757	320	63	327,668 Ehrlich, Leo.....	134	63	12
303,735 Downes, Moses H.....	758	326	63	462,115 Eisenhart, Jeremiah.....	46	23	5
363,993 Downes, Moses H.....	758	326	63	99,421 Elder, R. G.....	493	190	33
411,790 Downes, Allison O.....	384	150	32	28,483 Elliott, James B.....	1047	393	79
134,654 Downes, William C.....	826	441	88	288,414 Elliott, James B.....	1047	393	79
138,807 Downing, Leverett H.....	826	441	88	463,891 Elliott, Judson A.....	517	208	43
153,631 Downing, Leverett H.....	830	443	88	288,219 Elliott, Leonard W.....	608	316	50
165,159 Downing, Leverett H.....	832	443	89	379,270 Elliott, Sterling.....	372	145	31
494,556 Doyle, Thomas W.....	225	141	114	428,383 Elliott, Sterling.....	652	198	53
319,476 Drake, Franklin J.....	461	335	37	440,702 Elliott, Sterling.....	1027	381	84
390,952 Drake, Fred M.....	795	272	58	440,702 Elliott, Sterling.....	1027	381	84
499,544 Draper, George O.....	196	123	111	442,174 Elliott, Sterling.....	111	53	10
402,812 Draper, John.....	210	107	18	442,663 Elliott, Sterling.....	444	187	39
193,365 Drevar, George.....	519	220	43	442,738 Elliott, Sterling, and Richards, Hubert P.....	382	382	84
397,458 DuBois, Howard M.....	1016	374	83	446,674 Elliott, Sterling.....	392	154	32
397,459 DuBois, Howard M.....	1017	374	83	446,671 Elliott, Sterling.....	392	154	32
411,791 DuBois, Howard M.....	1021	377	83	446,672 Elliott, Sterling.....	31	15	3
412,669 DuBois, Howard M.....	1021	377	82	483,836 Elliott, Sterling.....	145	86	106
419,605 Dubois, Howard M.....	1022	377	83	487,874 Elliott, Sterling.....	175	107	109
424,766 DuBois, Howard M.....	1023	378	83	489,295 Elliott, Sterling.....	185	113	110
431,512 DuBois, Howard M.....	1024	379	84	491,475 Elliott, Sterling.....	204	128	112
499,824 DuBois, Johannes A.....	278	168	119	491,938 Elliott, Sterling.....	208	129	112
488,549 Dugan, James.....	181	111	110	494,113 Elliott, Sterling.....	221	138	113
89,744 Dugas, L. E.....	427	152	35	498,702 Elliott, Sterling.....	264	162	117
435,995 Dunlop, John B.....	1024	379	84	86,682 Ellis, George and Miller, Charles H.....	51	26	5
11,153 (R.) Dunlop, John B.....	1025	379	84	305,061 Ellis, Joseph L.....	218	95	19
435,699 { Dunlop, John B.....	1025	379	84	305,061 Ellis, Robert F., and Norman, Cornelius A.....	198	103	17
441,649 Dunlop, John B.....	27	13	3	467,794 Ellis, Seelye H.....	13	8	94
453,550 Dunlop, John B.....	1035	386	85	490,620 Ellis, Seelye H.....	194	121	111
455,899 Dunlop, John B.....	1049	387	85	361,881 Ellis, Silas C.....	366	142	30
473,631 Dunlop, John B.....	54	31	88	299,120 Ellwood, Reuben and Staugaard, Hans H.....	801	405	71
479,255 Dunlop, John B.....	109	62	102	478,551 Elmore, William A.....	101	57	102
478,156 Dunn, Andrew W.....	98	55	101	87,225 Ely, George H., and Topliff, John A.....	52	20	5
480,441 Dunn, Charles H., and Siar, William.....	118	68	103	348,855 Emerson, Cyrus J. Jr., and Lakin, James A.....	754	323	93
477,994 Dunn, Thomas.....	94	53	101	99,546 Emerson, George D.....	292	114	25
399,386 Dunn, William H. and Harrnette N.....	930	424	76	386,302 Emerson, James E., and Midgley, Thomas.....	550	452	91
341,462 Dunn, William W.....	910	412	73	386,302 Emerson, James E., and Midgley, Thomas.....	550	452	91
375,956 Dunstedter, Jacob.....	922	417	74	386,307 Emerson, James E., and Midgley, Thomas.....	550	452	91
439,128 Durkee, George B.....	26	13	3	362,500 Ensign, John W.....	408	339	38
439,129 Durkee, George B.....	710	275	59	284,622 Engellbach, Augustus L.....	885	493	70
293,725 Duryea, Charles E.....	455	332	37	481,751 Engler, Richard A.....	129	75	104
333,936 Duryea, Charles E.....	644	215	53	314,112 Enos, John A.....	639	179	52
339,537 Duryea, Charles E.....	238	161	21	404,611 Ensign, Frank H.....	938	424	76
359,583 Duryea, Charles E.....	138	65	13	490,277 Ensign, Frank H.....	191	118	111
357,819 Duryea, Charles E.....	645	216	53	114,783 Erd, William.....	534	200	44
364,231 Duryea, Charles E.....	143	67	13	491,012 Ericson, Lewis E.....	198	124	111
387,631 Duryea, Charles E.....	377	147	31	226,504 Esperandieu, Emile F.....	301	118	26

	<i>P.</i>	<i>C.</i>	<i>R.</i>		<i>P.</i>	<i>C.</i>	<i>R.</i>
87,033 Estell, Samuel F.....	52	26	5	270,214 Fosman, Calvin J.....	580	290	48
499,724 Estep, Thomas B.....	277	168	118	101,993 Forsyth, Frederick J.....	605	314	50
361,354 Estlow, Francis R.....	204	105	18	127,755 Forsyth, James B.....	824	440	88
486,452 Euchler, Otto.....	166	100	108	390,661 Forsyth, William S.....	930	421	75
216,482 Euphrat, Frederick.....	787	312	66	451,035 Fortier, Charles L.....	773	311	65
449,581 Evans, John B.....	35	18	4	302,329 Foss, Eli H.....	154	72	14
464,789 Evans, John B.....	86	41	8	455,547 Foster, Benjamin C.....	1040	389	86
464,700 Evans, John B.....	47	24	5	343,808 Foster, Frank F.....	543	203	45
385,258 Evans, James E.....	145	68	14	359,504 Foster, Frank F.....	544	204	45
459,682 Evans, Walter A., and Cowan, Thomas.....	395	155	32	448,952 Foster, Freling C.....	735	251	61
461,699 Everett, Arthur, and Anthony Jesse.....	43	23	5	399,190 Foster, Wm. C., and Merritt, Henry W.....	581	149	31
357,120 Ewing, Alvan B.....	915	415	74	456,028 Foster, William R.....	1030	387	85
425,095 Ewing, Rufus L.....	945	428	77	488,190 Foster, William R.....	15	9	94
320,917 Eyster, William N.....	162	76	15	469,405 Foster, William S.....	243	151	115
496,971 Fairbanks, Albert C., and Berlo, Peter J.....	252	155	116	431,342 Fournier, Philandre.....	389	153	32
238,770 Fairbanks, John A.....	968	359	92	224,165 Fowler, Francis.....	301	117	26
95,785 Fall, George A.....	518	220	43	227,511 Fowler, Francis.....	302	118	26
227,746 Fancher, James A.....	393	118	26	240,990 Fowler, Francis.....	307	120	26
484,786 Fane, Thomas, and Lavender, Chas. F., 83,132 Fanshaw, John A., Coles, George, and Jacques, James A.....	151	90	106	247,754 Fowler, Francis.....	780	277	65
Fauber, William H.....	213	133	113	248,441 Fowler, Francis.....	310	121	26
343,165 Fay, Lamarine W.....	353	136	29	225,585 Fox, Willard H.....	553	253	46
397,348 Fay, Lamartine W.....	379	148	31	467,227 France, Albert L.....	7	4	93
331,703 Fay, Patrick J.....	230	158	20	227,511 France, Albert L.....	120	69	103
484,952 Fay, Rimmon C.....	152	90	106	486,661 Frankel, William.....	225	156	20
484,953 Fay, Rimmon C.....	152	90	106	99,656 Fraser, J., and Austin, Jonathan.....	634	176	52
492,578 Fay, Rimmon C.....	211	131	112	486,456 Frazeer, Fremont, and Wintersteen, Jacob L.....	166	100	108
442,870 Fay, Stillman M.....	15	8	2	486,456 Frazeer, Fremont, and Wintersteen, Jacob L.....	301	117	26
401,342 Fay, Waldo G.....	202	127	112	290,224 Frenier, Joseph.....	593	253	46
444,505 Featherstone, Alfred.....	667	233	55	313,931 Frenier, Joseph.....	866	396	69
371,1747 Feeley, Thomas W.....	143	67	13	373,282 Frieden, Charles L.....	597	222	50
479,064 Fell, Charles.....	107	60	102	499,221 French, Edwin W.....	816	438	87
277,252 Ferguson, Edward G.....	882	402	70	266,236 Friedberger, Morris.....	882	401	70
85,151 Ferguson, Henry J.....	280	110	24	250,737 Fries, William A.....	262	91	22
88,703 Ferguson, Henry J.....	54	27	6	250,737 Fribis, Wm M., and Jackson, Frederick, A.....	271	165	118
493,696 Ferguson, William L.....	220	136	113	324,826 Fritz, August.....	843	448	90
494,324 Fernald, George W.....	47	24	5	321,162 Frommelt, Alfred E., Weber, Theodore R., A., and Henning, Carl G. E.....	511	214	42
246,000 Ferres, Jeffrey T.....	554	254	46	349,025 Funk, Elliott H.....	343	133	29
354,777 Ferries, George D.....	725	245	60	479,757 Fruen, Walter L.....	112	63	103
424,095 Ferson, James L.....	420	106	34	202,163 Fry, John W.....	745	264	62
249,166 Fielding, Geo. W., and Bryant Henry E.....	877	400	70	484,152 Fuchs, Oscar J.....	149	86	106
361,310 Filliez, Peter F., and Monnin, Alpheus C.....	726	246	60	440,949 Fuller, George K.....	772	311	65
376,241 Filliez, Peter F., and Monnin, Alpheus C., 39,561 Finchbaugh, Henry K.....	159	75	14	441,949 Fuller, George K.....	772	311	65
499,457 Finley, Gipson.....	856	393	67	282,303 Fuller, Lyndsay A.....	539	202	45
294,025 Fish, Frank L. P.....	166	118	50	305,068 Fullerton, George A.....	843	448	90
345,424 Fish, Warren L.....	888	404	71	295,499 Funk, Elliott H.....	540	202	45
385,606 Fish, Warren L.....	495	337	38	326,226 Funk, John B.....	202	104	18
499,379 Fish, Warren L.....	474	343	39	360,873 Fure, John P.....	917	415	74
356,112 Fish, Warren La F.....	272	165	118	388,048 Fryberg, Andrew and Johnson, Iver.....	688	283	57
65,199 Fisher, D. S.....	767	289	64	406,581 Fryberg, Andrew and Hanson, Olau.....	10	6	2
498,051 Fisher, Edwin C.....	603	314	50	205,056 Gable, William, and Pelton, Charles H.....	638	178	52
492,280 Fisher, George P.....	260	160	117	305,068 Fullerton, George A.....	185	99	16
498,777 Fisher, William C.....	209	130	112	388,063 Gallagher, Patrick.....	208	106	18
184,852 Fishwick, James.....	267	163	117	397,638 Gallagher, Patrick.....	210	107	18
333,402 Fishwick, James.....	206	115	25	204,973 Gallup, Henry C.....	317	124	27
117,760 Fitts, George W.....	906	411	73	363,503 Gallup, Henry C.....	894	406	71
401,425 Fitzpatrick, William J.....	992	363	80	435,997 Galt, Thomas A.....	953	431	78
437,026 Flachs, Richard.....	731	248	61	477,769 Gardner, Franklin B., and Trageser, John.....	180	97	16
107,517 Flack, John J.....	24	12	3	473,871 Gardner, Fulton.....	55	32	98
302,718 Flagg, George H. P.....	497	192	33	388,484 Garfield, Arthur L.....	474	343	39
91,534 Flanders, L. B.....	842	448	99	431,573 Garfield, Arthur L.....	485	349	39
141,536 Fleer, Francis R., and Bellemere, John F., 439,395 Fleischer, Richard J.....	633	176	52	457,072 Garfield, Arthur L.....	41	20	4
449,545 Fleming, Will A.....	1046	175	52	457,435 Garfield, Arthur L.....	42	20	4
449,438 Fleming, Will A.....	28	14	3	467,164 Garfield, Arthur L.....	7	4	93
471,472 Fleming, Will A.....	36	21	96	467,403 Garfield, Arthur L.....	9	5	94
377,162 Fletcher, Chas. J., and Gorman, Chas. R.....	923	418	75	473,388 Garfield, Arthur L.....	49	28	97
401,339 Fletcher, Richard H.....	174	83	15	481,538 Garfield, Arthur L.....	127	73	104
307,757 Fletcher, Robert C.....	338	131	28	485,186 Garfield, Arthur L.....	155	93	107
318,458 Fletcher, Thomas.....	845	449	90	311,305 Garland, Richard H.....	610	310	50
449,545 Fllickinger, Wm. F., and Witt, Geo. J.....	549	206	46	493,582 Garrard, Henry H.....	218	136	113
91,322 Flint, Daniel P.....	287	112	24	205,165 Garrood, John C.....	595	292	49
91,323 Flint, Daniel P.....	288	112	24	348,276 Garrood, John C.....	723	244	60
146,865 Flynn, William.....	995	358	91	418,611 Garwood, Spencer.....	645	216	53
369,702 Foley, John Jr.....	790	288	66	435,493 Garwood, Spencer.....	791	321	66
334,574 Foote, Edward H.....	677	224	56	441,544 Garwood, Spencer.....	206	128	112
291,323 Foote, George D.....	694	266	57	133,219 Gately, Dennis C.....	825	440	88
394,067 Forman, Sands.....	729	247	60	186,123 Gately, Dennis C.....	834	444	89
394,068 Forman, Sands.....	1016	374	82	327,786 Gates, Charles H.....	685	281	56
488,603 Forry, Chas. E., and Devore, Levi M....	181	111	110	361,280 Gaylor, Leonard B.....	171	81	15

<i>P.</i>	<i>C.</i>	<i>R.</i>	<i>P.</i>	<i>C.</i>	<i>R.</i>
409,782 Gaylor, Leonard B.....	595	298	49	377,610 Goodsell, Charles H.....	2
433,562 Gaylor, Leonard B.....	175	83	15	384,150 Goodsell, Charles H.....	1
444,430 Gedje, Burton H.....	956	432	78	377,102 Gorman, Chas. R., and Fletcher, Chas. J.....	1
458,573 Gedje, Burton H.....	601	434	79	314,236 Gormley, Herbert J.....	923
222,697 Geigan, Joseph E.....	221	222	114	19,552 Gormully & Jeffery Manufacturing Co.....	418
484,586 Gehl, Peter.....	150	89	106	19,553 Gormully & Jeffery Manufacturing Co.....	95
407,737 Gellhaus, Frank and Guethler, Wm.....	12	7	94	295,632 Gould, George H.....	801
458,844 Gellhaus, Frank and Guethler, Wm.....	161	97	107	254,128 Gould, George H.....	323
150,021 Gendron, Peter.....	866	396	68	300,975 Goulden, William.....	62
261,222 Gendron, Peter.....	878	400	70	404,832 Goulden, William.....	324
294,461 Gendron, Peter.....	998	365	81	400,384 Govan, Alexander.....	39
208,079 Gendron, Peter.....	684	280	56	500,359 Gowday, John.....	477
322,277 Gendron, Peter.....	902	410	72	344,432 Graham, Wm. H., and McDonald, Geo. R.....	172
365,377 Gendron, Peter.....	368	143	31	344,432 Graham, Wm. H., and McDonald, Geo. R.....	119
382,356 Gendron, Peter.....	927	419	75	219,777 Grant, Arthur W., and Bean Roscoe.....	432
400,074 Gendron, Peter.....	382	149	31	320,930 Grant, Arthur W.....	432
418,005 Gendron, Peter.....	387	152	32	349,050 Grant, Arthur W., and Jefferies, Daniel P.....	409
419,937 Gendron, Peter.....	943	427	77	468,538 Grant, Arthur W., and Rodger James.....	384
434,146 Gendron, Peter.....	952	431	78	G.....	94
456,822 Gendron, Peter.....	4	3	93	470,483 Grant, Arthur W., and Jefferies, Dan- iel P.....	16
466,824 Gendron, Peter.....	4	3	93	497,784 Grant, Arthur W.....	8
499,020 Gendron, Peter.....	270	164	118	103,441 Gray, Chester H.....	96
475,020 George Cortis K., and Perry, George R., and William H.....	66	37	98	123,661 Gray, Christian H.....	116
461,102 Gerber, Jean B.....	985	399	79	452,876 Gray, Christian H.....	353
447,818 Gerstung, Henry Jr.....	972	360	92	419,479 Gray, Christian H.....	200
453,441 Gertenbach, Louis P. J., and Hampp, Wm.....	781	278	65	490,904 Gray, William A.....	128
340,109 Gibbons, Francis J. J.....	659	228	54	151,183 Greacen, John, Jr.....	112
313,440 Gibbons, John.....	273	87	23	165,324 Greacen, John, Jr.....	5
351,972 Gibbons, John, and Meneely, Charles D.....	274	87	23	210,252 Green, Charles W.....	385
353,935 Gibbons, John, and Meneely, Charles D.....	275	88	23	47,587 Green, Richard.....	94
416,591 Gibbs, Frederick H.....	386	151	32	91,535 Greene, Alene, and Dyer, Elisha.....	123
485,540 Gibbs, William E.....	159	95	107	84,878 Greene, John A.....	111
322,174 Gibby, William.....	902	410	72	91,435 Greene, John A.....	88
23,108 Gibson & Prentiss.....	260	261	117	160,100 Green, John A.....	80
151,660 Gibson, Jacob H.....	446	329	36	80,339 Greenwood, Geo. D., and Husted, Frank H.....	94
464,357 Gibson, Myron B.....	586	259	47	50	303
185,345 Gibson, Myron B.....	156	94	107	441,485 Greenwood, Ransford S.....	5
278,334 Gideon, Francis M.....	884	402	70	123,451 Gregg, Solon A.....	40
222,779 Gilbert, James W.....	190	100	17	492,510 Gregory, Herbert.....	191
415,291 Gilbert, Solomon E.....	480	346	39	130,712 Griffiths, George H.....	33
230,572 Giles, William W.....	216	94	19	314,013 Griffiths, George H.....	23
239,573 Giles, William W.....	216	94	19	338,151 Griffiths, John A.....	29
252,455 Giles, William W.....	311	122	27	416,220 Grinnell, Amos L.....	136
22,057 Gilhuly, Stephen B.....	176	176	110	485,094 Griswold, Frederick B. and Dey, Harry E.....	2
227,685 Gill, Joshua S., Jr., and Alexander, Geo. B.....	302	118	26	451,858 Gross, John H.....	106
173,615 Gillespie, James E.....	833	444	89	254,639 Grout, William H. J.....	78
225,608 Gillespie, James E.....	838	446	89	248,737 Grubb, William H.....	27
208,366 Gillespie, James E.....	840	447	89	425,017 Guest, Charles H. and Barrow, Louis.....	33
299,067 Gillespie, James E.....	752	322	62	497,050 Guest, Herbert.....	33
401,551 Gillies, Alexander.....	937	424	76	467,737 Guethler, Wm. and Gellhaus, Frank.....	2
181,432 Gilzinger, Sebastian.....	296	115	25	485,844 Guethler, Wm. and Gellhaus, Frank.....	94
281,489 Girard, Jean B.....	67	31	7	463,862 Guignard, Louis F.....	107
429,344 Gisinger, Samuel.....	485	348	39	99,837 Guid, Joseph.....	33
46,558 Gleason, Elliott P.....	813	437	87	242,305 Guinand, Oliver U.....	24
451,477 Gleason, Francis.....	1033	385	85	302,398 Guinand, Oliver U.....	26
483,149 Gleason, Francis.....	138	81	105	350,243 Gump, Albert W.....	26
484,005 Gleason, Francis.....	146	88	106	492,285 Gundelach, Emil.....	62
484,420 Gleason, Francis.....	149	88	106	233,671 Gunn, Daniel A.....	112
484,552 Gleason, John R.....	150	89	106	93,332 Guy, C. B.....	35
77,478 Gleason, O. T.....	550	252	46	486,464 Haag, Paul.....	35
289,097 Gleason, Orville T.....	560	256	47	485,865 Hadley, Charles E.....	20
143,820 Glover, Joseph H.....	865	396	68	492,580 Hadley, Charles E.....	108
431,457 Glover, Truman J.....	770	310	64	495,732 Hadley, Charles E.....	107
437,591 Glover, Truman J.....	771	311	64	270,061 Hadley, Chas. F., and Overman, Albert H.....	112
399,662 Goble, Truman L.....	417	195	34	282,358 Hadley, Chas. F., and Overman, Albert H.....	27
497,519 Goddard, George B.....	256	157	116	285,413 Hadley, Chas. F., and Overman, Albert H.....	30
499,103 Goddard, George B.....	270	164	118	292,908 Hadley, Chas. F., and Overman, Albert H.....	56
455,438 Golderer, Johann M.....	265	93	22	315,018 Hadley, Chas. F., and Overman, Albert H.....	29
400,204 Golding, William.....	105	51	109	315,383 Hadley, Charles F.....	56
487,522 Golding, William.....	173	105	109	315,863 Hadley, Charles F.....	60
493,160 Golding, William.....	215	134	113	331,295 Hadley, Charles F.....	58
391,241 Gongware, Turney H. and Hanley, Ed- win K.....	147	69	14	355,818 Hadley, Charles F.....	20
485,187 Goodhue, Frank M. and James E.....	155	93	107	389,886 Hadley, Charles F.....	58
44,256 Goodman, Joseph.....	179	97	16	385,350 Hadley, Charles F.....	31
425,779 Goodrich, Harry C.....	709	275	59	385,570 Hadley, Chas. F., and Overman, Albert H.....	1
437,191 Goodrich, Harry C.....	94	46	9	464,500 Hadley, Charles F.....	56
455,395 Goodrich, Harry C.....	101	49	10	420,000 Hain, Ralph B.....	30
455,200 Goodrich, Harry C.....	1036	386	85	92,044 Hale, H. F.....	30
450,217 Goodrich, Harry C.....	101	49	10	25,571 Hale, Loren.....	30
450,218 Goodrich, Harry C.....	1036	387	85	07,458 Hale, William H.....	37
468,798 Goodrich, Harry C.....	21	12	95	39,289 Hale, William II.....	38
468,799 Goodrich, Harry C.....	21	12	95	3,53,744 Hall, Albert C.....	74

	<i>P.</i>	<i>C.</i>	<i>R.</i>		<i>P.</i>	<i>C.</i>	<i>R.</i>			
362,506	Hall, Albert C., and Bailey, Howard S...	918	416	74	396,083	Harris, Frank H.....	379	148	31	
425,506	Hall, Albert C.....	946	428	77	493,346	Harris, Frank II.....	1020	377	83	
470,836	Hall, Arthur W.....	33	19	96	493,347	Harris, Frank H.....	578	308	48	
492,887	Hall, Fred. J.....	213	133	113	494,997	Harris, Frank II.....	938	425	76	
480,844	Hall, George F.....	121	104	124,006	Harris, Isaac B.....	825	440	88		
301,869	Hall, John W.....	105	51	10	206,442	Harris, Joshua W.....	871	397	69	
476,764	Hall, Joseph C.....	82	45	100	495,733	Harris, William T.....	235	146	115	
447,822	Hall, John William.....	1030	383	84	242,310	Harrison, Alfred J.....	309	120	26	
318,725	Hall, Luther.....	198	103	17	381,547	Harrison, John n.....	679	224	56	
452,840	Hall, Orlando C., and Rasmussen, Eniar.....	959	433	78	252,939	Harrison, Thomas T.....	449	330	36	
310,676	Hall, Thomas P., and James B.....	340	131	26	264,287	Hart, Albert J.....	879	401	70	
325,338	Hall, Thomas P., and James B.....	345	133	29	275,485	Hart, Harry B.....	762	286	63	
91,123	Hall, William S.....	400	190	33	285,891	Hart, Harrie B.....	452	331	37	
451,428	Halladay, Lewis P.....	100	49	10	311,128	Hart, Harrie B.....	767	289	64	
451,429	Halladay, Lewis P.....	37	18	4	322,057	Hart, Harrie B.....	745	264	62	
477,179	Halladay, Lewis P.....	87	49	100	339,705	Hart, Harrie B.....	138	64	13	
92,600	Hans, Daniel.....	990	362	80	393,518	Hart, Harrie B.....	366	142	30	
290,576	Hambly, William S.....	125	59	12	395,620	Hart, Harrie B.....	145	68	14	
466,359	Hammann, Frank M.....	242	149	115	87,259	Hartford, Frank D., and Howe, Manley.....	713	240	59	
417,483	Hammarstrom, Olof.....	387	151	7	72,428	Hartley, Howard.....	816	438	87	
149,393	Hammelmann, Charles.....	535	201	45	484,681	Hartley, Richard K., McDougall, Isaac S., and Smith, George H.....	150	89	106	
225,010	Hammelmann, Charles.....	116	55	10	484,712	Hartley, Richard K.....	151	89	106	
477,540	Hammer, Jens J.....	90	51	101	456,815	Hartmann, Charles A.....	1039	388	85	
427,076	Hammerling, Franz.....	21	11	4	378,957	Hartness, James.....	728	247	60	
453,441	Hampf, Wm. and Gertenbach, Louis P.J.....	781	278	65	19	303,513	Hartney, Charles, and Paddock, William.....	716	241	60
348,325	Hanshaw, Charles W.....	221	96	19	409,994	Harvey, Charles T.....	479	345	39	
418,142	Hance, William A., and Stover, Daniel C.....	13	7	4	259,535	Harwood, George F.....	782	278	65	
431,308	Hance, William A., and Ziegler, Oscar J.....	90	43	53	297,991	Harwood, George F.....	782	278	65	
454,431	Hance, William A.....	491	353	49	397,078	Haslup, William.....	935	423	76	
468,994	Hance, William A.....	23	13	95	442,043	Haslup, William.....	954	431	78	
109,498	Hanchett, Daniel, Daney, John C., and Stuart, Reuben.....	429	182	35	497,495	Hassan, Midbury W.....	255	156	116	
232,266	Hancock, James L., and Salomon, Nahum.....	906	364	80	221,017	Hassenpflug, Henry.....	409	192	33	
104,870	Hancock, Warren H.....	188	99	17	458,106	Hatcher, Edwin H.....	85	41	8	
274,762	Handy, Charles F., and Anthony, Wendell F.....	320	125	27	456,411	Hathaway, Edgar F.....	743	262	62	
384,759	Hanks, Austin J.....	928	420	75	209,953	Haulenbeek, John H., and Beatty Robt. P.....	837	445	62	
433,285	Hanks, Austin J.....	951	420	78	499,758	Hausknecht, Edward and Schloemer, Gottfried.....	264	92	22	
391,241	Hanley, Edwin K. and Gongware, Turney II.....	147	69	14	99,567	Hausknecht, Gustavus L.....	403	190	33	
79,654	Hanlon, George, William, Alfred, Edward and Frederick (R.) Hanlon, George, William, Alfred, Edward and Frederick.....	49	26	5	86,153	Hawkins, John E.....	257	89	22	
79,654	{ Edward and Frederick.....	50	26	5	303,712	Hawkins, Lorenzo P.....	827	441	88	
86,834	Hanson, William.....	51	26	5	384,469	Hawn, Socrates A.....	930	420	75	
433,621	Hannes, George.....	952	430	75	210,422	Hayes, Daniel D.....	967	358	92	
307,293	Hanser, Otto.....	726	246	64	354,638	Hayes, Gideon, Jr., and Schaaf, Albert E.....	592	296	49	
250,483	Hansmann, Max, and Barnes, Raymond F.....	749	322	62	402,926	Hayes, Gideon, Jr.....	707	274	59	
425,612	Hanson, Albert, Johnson, Thomas, and Whiteley, Nathan.....	946	428	77	359,536	Hayes, William L., and Hildreth, Geo. H.....	141	66	13	
456,989	Hanson Andrew P.....	266	93	4	19,953	Hazelewold & Warman.....	803	803	67	
388,047	Hanson, Olau, and Johnson, Iver.....	665	232	52	241,668	Hayes, John and Newsam, George A.....	520	220	43	
406,551	Hanson, Olau, and Fyrberg, Andrew.....	10	6	2	303,230	Hayes, William.....	562	257	47	
420,059	Hanson, Olau, and Lobben, Pedder.....	14	7	2	458,393	Heale, William.....	1043	391	86	
420,060	Hanson, Olau.....	482	346	39	462,815	Heale, William.....	722	244	60	
420,061	Hanson, Olau.....	944	427	77	341,237	Healey, John H.....	183	98	16	
459,093	Hanson, Olau.....	42	21	4	301,234	Healy, William F.....	585	292	49	
471,744	Hanson, Olau.....	38	21	96	448,960	Hazard, Frederick J. II.....	34	17	4	
482,735	Hanson, Olau.....	135	79	105	484,729	Hearley, George W.....	962	435	79	
297,343	Harbison, Andrew.....	839	446	89	479,069	Heath, Elroy N.....	107	61	102	
436,873	Hardy, Emery E.....	78	37	8	266,820	Heath, Watson A.....	318	124	27	
441,409	Hardy, Emery E.....	80	38	8	490,438	Hedderwick, Percy D.....	650	197	53	
405,475	Hardy, Emery E.....	86	42	9	379,955	Hedger, Harry D.....	237	237	115	
487,669	Hardy, Walter B.....	174	106	109	315,026	Heeley, Richard.....	703	271	58	
488,392	Hardy, Walter B.....	179	110	110	342,257	Heidorf, Joseph.....	543	203	45	
92,306	Hares, Thomas A.....	604	314	50	325,408	Heilmann, Russell P., and Perkins, Richard B.....	512	214	42	
91,438	Harper, C. A.....	182	98	16	425,789	Heller, James E.....	526	222	44	
492,047	Harper, James M., and Otis, John D.....	208	130	112	254,873	Heller, James E.....	878	400	70	
409,581	Harrell, Amaziah E.....	419	196	34	321,219	Hemelright, Henry H., and Stone, Geo. W.....	901	409	72	
478,564	Harrington, Frank and Bullard, Frederick.....	101	57	102	92,528	Hemmings, Richard C.....	635	177	52	
240,905	Harrington, John.....	447	329	36	425,789	Hems, Jan A.....	652	198	53	
324,317	Harrington, John.....	235	160	20	423,249	Hende, George M.....	709	275	59	
359,863	Harrington, John.....	660	229	54	155,183	Henderer, Edmond, and Dale, John H.....	186	99	16	
360,588	Harrington, John.....	467	339	38	490,438	Hendrick, Joel H.....	193	119	111	
364,171	Harrington, John.....	468	339	38	499,675	Hendrick, Joel H., and Kelly, Jarvis P.....	276	167	118	
498,790	Harrington, Theodore.....	267	163	117	280,473	Hendrickson, Zachariah.....	195	102	17	
439,400	Harriott, George.....	488	350	40	327,084	Hennessey, Thomas F.....	414	194	34	
458,806	Harriott, George.....	42	21	4	421,933	Hennessey, Thomas F.....	548	206	46	
499,109	Harriott, George.....	271	164	118	310,998	Henning, Carl G. E.....	233	159	20	
422,407	Harris, Ernest A.....	945	428	77	10,575 (R.)	Henning, Carl G. E.....	233	159	20	
353,060	Harris, Frank H.....	913	413	74	310,998	Henning, Carl G. E.....	233	159	20	
369,850	Harris, Frank H.....	921	417	74	316,146	Henning, Carl G. E.....	233	159	20	
371,586	Harris, Frank H.....	1013	372	82						

P.	C.	R.	P.	C.	R.				
321,162	Hennig, Carl G. E., Frommelt, Alfred E., and Weber, Theodore R. A.....	343	133	29	447,542	Holmes, Ira.....	855	393	67
393,904	Henry, Hiram F.....	475	343	39	91,018	Holmes, John A.....	672	236	55
351,708	Henry, John.....	613	317	51	523,149	Holske, Wm. F., and Babbitt, B. T.....	619	171	51
477,095	Henshaw, Francis T., and Adams, Frederick G.....	85	48	100	334,971	Holt, Albert T.....	845	449	90
12,406	Herbert, Wm. H., Hillman, Wm., and Cooper, George B.....	794	794	67	497,951	Holt, Leopold.....	847	450	90
19,858	Herbert, Wm. H., Hillman, Wm., and Cooper, George B.....	802	802	67	245,827	Holtkamp, Herman H.....	250	157	116
443,207	Hering, Albert.....	769	290	64	474,740	Hood, George H.....	549	205	46
118,934	Hermane, Charles W.....	992	363	80	489,478	Hoopes, David J.....	996	364	80
360,017	Hernandez, Eleuterio C.....	142	66	13	245,829	Hopkinson, Frederick and Leonard C.....	64	36	98
433,202	Herrick, John L.....	211	108	18	454,972	Hopkinson, John E.....	186	114	110
157,824	Hess, Charles, and Hess, George E.....	792	310	67	373,980	Hopwood, John.....	422	188	34
261,411	Hesser, Benjamin F., and Van Meter, Joseph E.....	434	183	35	476,381	Horal, James H.....	742	262	62
471,117	Hessong, James.....	34	20	90	421,277	Horn, David.....	206	105	18
500,209	Heyisinger, Isaac W.....	281	170	119	421,932	Hornig, Julius L.....	297	116	25
446,098	Hilbert, Wm. E., and Manuel, Alfred.....	30	15	3	431,834	Horsfield, Thomas, and Willoughby, Frank S.....	6	4	93
250,911	Hicks, Horace F.....	654	226	53	431,805	Ierton, Jas. M., and Levison, Michael M. ....	708	275	59
366,872	Hicks, Horatio F.....	935	423	76	431,866	Ierton, Jas. M., and Levison, Michael M. ....	709	275	59
483,493	Hicks, Thomas H.....	140	82	105	436,239	Horton, Numon N.....	640	217	53
484,397	Hicks, Thomas H.....	148	88	106	405,155	Horton, Numon N.....	647	217	53
478,191	Hide, Arthur C.....	99	56	101	475,136	Horton, Numon N.....	949	430	78
496,937	Hide, Arthur C.....	251	155	116	228,906	Horton, Numon N.....	648	217	53
271,583	Hiester, Charles E.....	320	123	27	488,200	Hosea, Lewis M.....	1045	392	86
285,150	Hiester, Charles E.....	324	126	28	488,201	Hotchkiss, Arthur E.....	117	55	11
415,111	Higby, Edward H., and Morsman, John A. ....	941	426	77	195,335	Hotchkiss, Arthur E.....	176	1,8	109
425,869	Higby, Edward H., and Morsman, John A. ....	947	425	77	245,499	Houff, William H.....	177	109	109
194,681	Higgins, James and Traynor, Patrick.....	187	99	17	358,043	Houff, William H.....	822	439	88
218,968	Higham, Enos T.....	190	100	17	89,047	House, Herbert E.....	193	101	17
305,925	Higham, Enos T., and Daniel.....	330	130	28	141,715	House, James A., and Snyder, Wm. B. ....	88	42	9
201,179	Higley, Ebene N.....	188	99	17	465,476	House, Philander C.....	282	111	24
359,536	Hildreth, George H., and Hazen, Wm. L. ....	141	66	13	249,622	Howard, Henry G. M.....	505	396	68
351,771	Hiler, Giles P.....	544	204	45	170,629	Howard, James E., and Stall, Wm. W. ....	1045	393	86
229,252	Hill, Edward K., Tolman, Edward F., and Howland, Arthur H.....	553	254	46	195,093	Howard, James E., and Stall, Wm. W. ....	714	240	59
275,910	Hill, Edward K.....	451	331	36	330,026	Howard, Wm. T., and Geo. H. ....	597	222	50
213,508	Hill, Frank A.....	871	398	69	339,027	Howe, Eugene L.....	208	130	112
216,956	Hill, Frank A.....	872	398	69	344,529	Howe, Edward P.....	350	155	29
494,333	Hill, George H.....	222	138	114	344,531	Howe, Edward P.....	350	155	29
497,930	Hill, Louis A.....	11	6	2	87,259	Howe, Edward P.....	353	137	30
459,393	Hill, Louis A.....	1041	390	86	293,251	Howe, Edward P.....	354	137	30
312,634	Hill, Sylvester B.....	459	334	37	393,853	Howell, George W.....	713	240	59
88,872	Hill, W. S.....	281	110	24	316,365	Howell, George W.....	888	404	71
422,751	Hiller, Henry F.....	15	8	2	356,643	Howell, George W.....	894	406	71
448,716	Hilliard, John S.....	761	328	63	366,156	Howell, George W.....	900	409	72
12,406	Hillman, William, Herbert, William H., and Cooper, George B.....	794	67	405,093	Howell, George W.....	915	415	74	
19,858	Hillman, William, Herbert, William H., and Cooper, George B.....	794	67	420,343	Howell, George W.....	917	415	74	
241,361	Hillman, William.....	802	602	67	229,252	Howell, George W.....	921	417	74
247,634	Hillman, William.....	681	279	56	44,425	Howell, George W.....	928	425	76
310,823	Hillman, William.....	309	121	26	344,529	Howell, George W.....	934	427	77
311,320	Hillman, William.....	458	334	37	51,052	Hoosie, David K., and Reed, Thomas L. ....	553	254	46
430,019	Hillman, William.....	22	60	12	54,999	Hoosie, David K., and Reed, Thomas L. ....	553	254	46
213,109	Hinckley, Hermon, and Culver, Newton H.....	189	111	3	424,986	Hoyle, Clarence P.....	553	254	46
341,911	Hoak, Amos.....	203	100	17	322,936	Hoyle, Clarence P.....	553	254	46
388,416	Hockett, Pleasant.....	207	104	18	436,978	Hoyle, Edward K.....	553	254	46
91,937	Hodge, Lyman F.....	692	106	18	439,779	Hoxsie, David K., and Reed, Thomas L. ....	553	254	46
9,054	Hodge, Nehemiah.....	398	265	18	435,358	Hudson, Arthur O.....	601	285	57
160,208	Hodges, Andrew J.....	867	189	33	354,474	Hudson, Fred W.....	932	431	78
420,722	Hodges, Frank S.....	668	397	69	378,936	Hudson, N. W.....	933	414	74
347,940	Hoefer, Hermann, and Blechschmidt, Gustav.....	911	233	55	393,284	Huber, Edward.....	280	110	24
64,418	Hoeppner, F. G.....	501	413	73	303,284	Huber, Edward.....	893	406	71
146,340	Hoffman, Antony A.....	294	210	41	303,285	Huber, Edward.....	893	406	71
493,153	Hoffmann, Ernest G.....	1044	114	25	492,673	Hudson, Charles E.....	971	300	92
309,566	Hoffman, Geo., and Schad, Barnhard.....	868	391	86	375,707	Hudson, Henry J.....	409	340	38
134,989	Hoffmire, John E.....	226	48	72	339,422	Hudson, James.....	1005	369	81
295,870	Hogan, William H.....	787	157	20	339,550	Hudson, James.....	1006	360	81
499,229	Hohenstein, Henry, and Apple, Benjamin J.....	100	312	66	452,073	Huelsken, Felix J., and Nagel, Jacob.....	37	18	4
458,832	Hoffoh, Frederick H.....	773	117	110	455,945	Huelsken, Felix J., and Nagel, Jacob.....	40	20	4
308,160	Holke, John L.....	866	312	65	498,394	Huemeknick, Frederick W.....	92	52	101
478,410	Holdsworth, Charles H.....	100	497	72	498,794	Huestis, Frederick W.....	202	101	117
482,175	Hollafoalla, George.....	132	57	101	414,046	Huggins, Robert T.....	267	163	118
285,035	Holland, Wiley S.....	411	193	34	495,661	Hughes, George M.....	222	90	19
437,209	Hollister, Wm., and Wardman, Palmer.....	631	175	52	22,454	Hughes, Joseph H., and Bown, Wm. ....	924	418	75
186,379	Holloway, Chas. T., and Steeman, Wm. H. H.....	269	86	23	300,261	Hughes, Joseph H., and Bown, Wm. ....	234	145	114
274,196	Holloway, Charles T.....	195	102	17	259,853	Hull, George S., and Charles S. ....	550	197	53
266,020	Hollweg, Julius II.....	188	100	17	20,325	Hull, Welcome H., and O'Rear, Jas. W. ....	114	54	11
					305,690	Humber, Thomas.....	804	804	67

	<i>P.</i>	<i>C.</i>	<i>R.</i>		<i>P.</i>	<i>C.</i>	<i>R.</i>
352,000 Humber, Thomas.....	466	338	38	371,326 Jeffery, Thomas B.....	745	263	62
328,682 Humphreys, Robert E.....	462	336	37	379,276 Jeffery, Thomas B.....	662	230	54
332,658 Humphreys, Robert E.....	463	336	37	383,129 Jeffery, Thomas B.....	1015	373	82
82,319 Hunt, David, Jr.....	257	89	22	393,130 Jeffery, Thomas B.....	1015	373	82
443,482 Hunt, Franklin B.....	81	39	8	393,131 Jeffery, Thomas B.....	688	283	57
413,721 Hunt, Franklin B.....	81	39	8	394,980 Jeffery, Thomas B.....	473	342	39
450,938 Hunt, Franklin B.....	83	40	8	395,715 Jeffery, Thomas B.....	704	272	58
471,909 Hunt, Harry, and Steers, William.....	41	23	98	395,147 Jeffery, Thomas B.....	7	3	1
471,685 Hunt, Jonathan A.....	38	21	98	397,188 Jeffery, Thomas B.....	689	284	57
483,559 Hunt, Jonathan A.....	143	85	100	397,189 Jeffery, Thomas B.....	578	308	48
489,308 Hunt, Jonathan A.....	186	113	110	398,158 Jeffery, Thomas B.....	7	4	1
483,405 Hunter, Andrew.....	141	83	106	398,159 Jeffery, Thomas B.....	380	149	31
406,301 Hunter, Andrew.....	212	150	115	400,343 Jeffery, Thomas B.....	650	197	53
414,048 Hunter, David E.....	707	274	59	406,445 Jeffery, Thomas B.....	10	5	1
90,546 Huntington, Elon.....	268	85	23	408,014 Jeffery, Thomas B.....	254	170	22
411,169 Huntington, Frank A.....	629	174	51	408,718 Jeffery, Thomas B.....	478	345	39
171,137 Hurst, Narcisse.....	791	321	66	411,035 Jeffery, Thomas B.....	74	34	7
172,200 Hurley, Madison M., Stockdale, Cornelius F., and Reamer, Hiram J.....	994	363	80	434,449 Jeffery, Thomas B.....	486	349	40
448,586 Hurrell, William E.....	673	237	58	444,069 Jeffery, Thomas B.....	669	234	55
470,070 Huss, Rudolph W., and Moffat, Geo. D.....	31	18	95	448,655 Jeffery, Thomas B.....	673	237	55
490,638 Huss, Rudolph W.....	104	121	111	449,220 Jeffery, Thomas B.....	674	238	55
495,974 Huss, Rudolph W.....	237	147	115	454,115 Jeffery, Thomas B.....	1035	386	85
495,975 Huss, Rudolph W.....	238	147	115	454,172 Jeffery, Thomas B.....	491	353	40
330,786 Hussong, Joseph.....	542	203	45	460,641 Jeffery, Thomas B.....	44	22	5
86,339 Husted, Frank H., and Greenwood, Geo. P.....	50	26	5	466,505 Jeffery, Thomas B.....	2	1	93
321,365 Hutchins, Benjamin F., Jr.....	753	323	63	466,789 Jeffery, Thomas B.....	3	3	93
86,545 Hutsman, E. N.....	532	200	44	477,007 Jeffery, Thomas B.....	84	40	100
111,213 Hyde, Oliver.....	991	362	80	490,252 Jenkins, Anthony D.....	250	154	116
117,422 Hyde, Oliver.....	991	362	80	287,930 Jeune, Charles H.....	191	117	111
245,071 Ilston, George.....	654	225	53	94,215 Jennings, S. H.....	608	315	50
383,306 Ilston, George.....	794	272	53	433,172 Jett, John.....	289	113	24
480,585 Imlah, James.....	118	68	103	433,173 Jett, John.....	77	36	8
217,533 Ingerson, Roswell K.....	189	100	17	480,586 Jewell, Robert.....	596	299	49
352,952 Ingram, Alfred W.....	562	257	47	481,566 Jewett, Frank.....	119	68	103
494,003 Irons, Foster H.....	220	136	113	278,021 Jillson, Alonzo.....	883	402	70
89,149 Irving, Joseph.....	54	27	6	436,979 Jiran, Charles G.....	764	287	64
85,527 Irwin, John H.....	50	26	26	232,825 Johnson, Alfred C.....	191	101	17
86,405 Irwin, John H.....	224	156	20	34,369 Johnson, Frank G.....	529	199	44
86,406 Irwin, John H.....	51	26	5	326,745 Johnson, Frederick L.....	765	287	64
89,584 Irwin, John H.....	551	252	46	90,687 Johnson, Geo. II., and Rathmann, Henry.....	114	54	11
302,498 Isham, Lewis S., and Kelling, John, Jr.....	413	193	34	306,210 Johnson, George W.....	760	327	63
409,651 Israel, Abraham.....	27	15	95	408,624 Johnson, Gottfried.....	254	170	22
481,762 Ives, John F., and Colman, Frank B.....	129	75	100	379,224 Johnson, Iver.....	702	271	58
282,897 Ivett, Daniel R.....	540	202	45	379,228 Johnson, Iver, and Torkelson, Reinhard T.....	702	271	58
395,441 Jackson, Calvin.....	252	169	22	388,047 Johnson, Iver, and Hanson, Olaus.....	665	232	54
250,737 Jackson, Frederick A., and Frisbie, Wm. M.....	766	288	64	388,048 Johnson, Iver, and Fyrberg, Andrew.....	688	283	57
302,956 Jackson, Josiah.....	504	297	49	301,333 Johnson, John, and Osborne, William T.....	378	148	31
456,702 Jacobs, Charles F.....	1036	387	85	309,333 Johnson, Sidney.....	293	114	25
83,152 Jacques, James A., Coles, George, and Fanshaw, John A.....	817	438	87	425,612 Johnson, Thomas, Hanson, Albert, and Whiteley, Nathan.....	946	428	77
398,493 James, Campbell E.....	936	423	76	477,122 Johnson, Warren S.....	86	48	100
442,980 James, Jack W.....	785	321	66	477,123 Johnson, Warren S.....	86	48	100
447,240 Jamison, Thomas W.....	445	187	39	116,062 Johnston, David.....	551	253	46
330,123 Jan Graw, Selden A.....	738	259	61	127,063 Johnston, James A.....	863	395	68
331,109 Jannus, Frankland.....	166	79	15	349,435 Johnston, James A.....	912	413	73
115,212 Janson, Bernhard.....	184	99	16	349,433 Johnston, James I.....	912	413	73
473,931 Jaquish, Louis C.....	57	33	98	360,505 Johnston, Robert and Peifer, Geo. W., Jr.....	171	81	15
478,752 Jaquish, Louis C.....	103	58	102	344,335 Johnston, Thomas.....	130	61	12
426,384 Jasper, Wilhelm.....	630	174	51	465,859 Jolly, Claude.....	87	42	9
165,587 Jeantaud, Charles.....	993	363	80	90,947 Jones, Edgar A.....	287	112	24
449,650 Jefferies, Daniel P., and Grant, Arthur W.....	384	85	48	466,072 Jones, Frank D.....	495	355	40
470,493 Jefferies, Daniel P., and Grant, Arthur W.....	32	18	66	266,837 Jones, Frederick W.....	334	130	28
243,569 Jefferson, Thomas E.....	875	399	66	314,849 Jones, Harry II.....	718	242	66
405,044 Jefferson, Charles B.....	1047	303	79	334,233 Jones, James.....	846	450	90
19,552 Jeffery & Gormully Manufacturing Co.....	801	801	67	344,449 Jones, Mary S. and Naly, Sarah L.....	272	165	118
19,553 Jeffery & Gormully Manufacturing Co.....	801	801	67	106,002 Jones, Septimus W.....	415	194	34
259,313 Jeffery, Thomas B.....	996	364	80	357,166 Jorgensen, Alfred.....	729	247	60
275,917 Jeffery, Thomas B.....	581	290	48	106,003 Jorgensen, Charles.....	525	222	44
282,528 Jeffery, Thomas B.....	559	256	47	277,904 Josef, Edward E.....	883	402	70
312,473 Jeffery, Thomas B.....	129	60	12	160,526 Joslin, Jacob D.....	830	443	88
333,128 Jeffery, Thomas B.....	697	268	58	216,100 Joule, Benj. A.....	300	117	26
335,590 Jeffery, Thomas B.....	1005	360	81	325,278 Joyce, Geo. A. and Rushmer, Benj.....	904	410	73
352,190 Jeffery, Thomas B.....	139	65	13	375,877 Judson, Thomas S.....	849	452	90
354,997 Jeffery, Thomas B.....	407	338	38	327,952 Jungo, Frederick.....	348	134	29
355,321 Jeffery, Thomas B.....	592	296	48	106,381 Jury, F. Herman.....	993	363	80
359,608 Jeffery, Thomas B.....	659	229	51	485,395 Justice, William M.....	180	110	110
359,609 Jeffery, Thomas B.....	687	282	57	238,915 Karlss, Helander.....	432	183	35
365,074 Jeffery, Thomas B.....	469	340	38	465,861 Karmin, Valerian.....	48	25	5
366,218 Jeffery, Thomas B.....	699	269	55	186,136 Katon, Walter, and Bonfils, Paul.....	207	116	25
366,775 Jeffery, Thomas B.....	699	270	58	465,934 Keating, John D.....	48	25	5
370,396 Jeffery, Thomas B.....	570	306	48	494,575 Keating, John D.....	252	141	114

P.	C.	R.	P.	C.	R.
429,805 Keating, Robert M.....	90	43	9	161,045 Knapp, George S.....	966 358 92
426,670 Keating, Robert M.....	29	10	2	400,000 Knapp, Joseph.....	149 70 14
485,633 Keating, Robert M.....	160	96	107	222,506 Kneid, Anton.....	422 188 34
491,503 Keating, Robert M.....	206	129	112	455,288 Knell, James W.....	1047 503 79
19,293 Keefe & Beccannon.....	800	67	307,301 Knight, Herbert.....	848 451 90	
491,429 Keen, John, Marriott, Thos. R., and Cooper, Frederick.....	203	128	112	159,584 Knight, Walter.....	187 99 16
482,099 Kehr, Cyrus.....	131	77	105	375,940 Knight, Walter.....	923 418 74
401,563 Keith, Alpheus.....	937	424	78	334,873 Knight, William W. H.....	970 360 92
161,966 Kellar, Martin L., and James M.....	868	397	69	345,063 Knipe, William A.....	848 451 90
497,279 Kelly, Jarvis P.....	253	156	116	279,956 Knous, John.....	650 196 53
409,675 Kelly, Jarvis P., and Hendrick, Joel H.....	276	167	118	281,889 Knous, John.....	653 280 56
304,827 Kelley, William S.....	436	333	37	307,120 Knous, John.....	457 333 37
321,819 Kelley, William S.....	162	76	15	311,188 Knous, John.....	458 334 37
321,932 Kelley, William S.....	163	77	15	312,732 Knous, John, and Wallace, Albert E.....	656 220 54
362,514 Kelley, William S.....	1611	372	82	313,083 Knous, John, and Wallace, Albert E.....	572 395 48
302,498 Kelling, John Jr., and Isham, Lewis S.....	413	193	34	318,568 Knous, John.....	460 335 37
19,092 Kellner, L. (See Errata).....	178	97	16	322,543 Knous, John.....	696 267 58
283,612 Kellogg, Henry.....	125	58	12	354,511 Knous, John.....	592 296 49
134,894 Kellogg, Hiram.....	864	395	68	363,522 Knous, John.....	678 224 56
359,448 Kelsey, Benjamin.....	141	66	13	371,266 Knous, John.....	662 230 54
299,973 Kelsey, George S.....	694	266	57	374,542 Knous, John.....	576 307 48
484,557 Kempe, Arnold H.....	151	90	106	382,430 Knous, John.....	471 341 38
440,312 Kendall, George D., and William F.....	711	276	59	405,780 Knous, John.....	477 345 39
276,600 Kenfield, William and Stilwell, Henry M.....	769	310	64	487,854 Knudson, Adolph.....	215 94 19
448,750 Kenfeld, William W.....	673	238	55	500,000 Koenig, Christian.....	174 106 109
305,198 Kempster, Daniel E.....	598	223	50	453,243 Koeppl, Henry.....	514 215 42
369,866 Kempster, Daniel E.....	690	223	50	488,144 Kohler, Frederick E.....	373 145 31
287,943 Kennedy, DeLancy.....	115	54	11	409,091 Kohler, Frederick E.....	383 150 31
446,835 Kennedy, John W.....	747	205	62	496,206 Kopp, Theodore, and Lutz, Wm. E.....	241 149 115
383,644 Kennedy, Samuel V.....	927	419	75	498,172 Kortright, George W., and Craven, Charles M.....	260 160 117
485,585 Kenney, Owen E., and Cable, Frank D.....	159	95	107	360,392 Koyl, C. Herschel, and Prindle, Frank P.....	707 289 64
431,666 Kenney, Thomas M.....	210	108	18	355,324 Kramer, Camillo.....	262 91 22
431,061 Kenney, Thomas M.....	211	108	18	301,530 Kramer, Camillo.....	244 164 21
437,997 Kenney, Thomas M.....	596	299	50	390,077 Kramer, Camillo.....	931 421 75
437,999 Kenney, Thomas M.....	1025	380	84	421,100 Kramer, Camillo.....	256 171 22
198,627 Kerr, Christopher C.....	107	192	33	16,066 Krause, Henry.....	398 189 33
461,207 Kessler, Frank J.....	396	155	32	394,703 Kreps, John W.....	933 422 70
169,272 Kester, Ira.....	868	397	69	293,581 Kressly, Wilson.....	684 280 56
477,423 Keyser, Algernon S.....	89	50	101	445,118 Krieger, Julius, and Dallmer, Albert.....	712 276 59
385,717 Kilbe, George.....	679	225	56	498,508 Kromer, Camillo.....	268 103 113
389,999 Kilbe, George.....	145	68	14	245,540 Krueger, John W.....	510 213 42
393,837 Kilbe, George.....	173	82	15	499,750 Kuhn, Edmund.....	195 121 111
402,466 Kilbe, George.....	72	33	7	443,499 Kuolt, Joseph, and Coram, Stephen.....	549 206 46
347,178 Kidder, Francis L.....	530	199	44	493,509 Kurtz, Louis.....	218 135 113
375,755 Kidder, Wellington P.....	247	165	21	481,038 Kupfer, Arthur A., and Herman, C.....	122 70 104
393,071 Kihl, Charles M.....	546	205	46	327,697 La Casse, Henry.....	512 214 42
103,895 Kilner, Geo., and Simmons, Francis H.....	403	191	33	327,679 La Casse, Henry.....	237 160 21
278,972 Kimball, Stephen H.....	66	31	7	372,031 La Casse, Henry.....	245 164 21
471,358 Kimball, Stephen H.....	36	20	66	359,517 La Casse, Henry.....	250 166 21
487,917 Kimball, Stephen H.....	171	103	108	439,308 Lake, Ezra B.....	954 431 78
457,018 Kimball, Stephen H.....	171	103	108	348,591 Lakin, James A., and Emerson, Cyrus	
123,707 Kind, Robert.....	185	99	16		
327,397 King, Homer A.....	236	160	20	59,915 Lallement, Pierre.....	754 323 63
327,954 King, Homer A.....	236	160	20	7,972 (R.) Lallement, Pierre.....	49 25 5
341,383 King, Homer A.....	239	161	21		
349,800 King, Homer A.....	241	162	21	59,915	
349,801 King, Homer A.....	356	138	30	444,130 Lamb, John and Root, Charles H.....	856 393 68
349,802 King, Homer A.....	68	32	7	443,909 Lambert, Richard C., and Crawford, Har-	
351,971 King, Homer A.....	1010	371	82	vey F.....	
358,294 King, Homer A.....	467	339	38	444,131 Lambert, Richard C., and Crawford, Har-	
369,162 King, Homer A.....	467	339	38	vey F.....	
373,807 King, Homer A.....	593	297	49	390,174 Lambert, Robert B.....	631 175 52
404,449 King, Homer A.....	731	249	61	327,656 Lamplugh, James A.....	208 106 18
475,780 King, Wm. E., and Walpole, Wm. R.....	74	40	99	311,332 Lamplugh, James A.....	454 332 37
439,879 King, William H.....	741	26	61	323,693 Lamplugh, James A.....	458 334 37
303,753 Kinne, Porter S., and Sandford, Charles.....	541	203	45	343,909 Lamplugh, James A.....	461 335 37
390,682 Kinney, Edwin R.....	931	421	75	352,331 Lamplugh, James A.....	775 300 65
62,427 Kirk, George H.....	530	199	44	382,534 Lamplugh, James A.....	471 342 38
317,377 Kirk, John A.....	780	277	65	416,335 Lamplugh, James A.....	480 351 40
413,189 Kirk, John A.....	108	52	10	462,951 Lampson, Winslow F.....	855 454 91
278,560 Kirkpatrick, Thomas J.....	452	331	36	253,211 Lamson, Charles H.....	774 290 65
289,272 Kirkpatrick, Thomas J.....	453	331	37	320,145 Lamson, Charles H.....	752 323 63
314,142 Kirkpatrick, Thomas J.....	459	334	37	344,089 Lamson, Charles H.....	777 301 65
405,669 Kirkpatrick, Thomas J.....	497	357	41	450,673 Lamson, Charles H.....	778 302 65
495,393 Kitto, William H.....	667	233	55	452,977 Lamson, Charles H.....	778 302 65
497,798 Klages, William.....	257	158	117	29,288 Landis, Edward.....	497 208 41
447,331 Klahr, Davill L.....	617	319	51	494,088 Landreth, Leopold.....	220 130 113
285,821 Klahr, William.....	160	75	14	94,599 Landry, Norbert.....	429 182 35
420,609 Klausner, Arthur E., and Southard, Frank E.....	1022	378	83	387,685 Lane, Henry G.....	929 420 75
				294,993 Lane, John.....	870 397 69
420,610 Klausner, Arthur E., and Southard, Frank E.....	1022	378	83	278,438 Lane, John.....	884 402 70
406,742 Klipstein, James H.....	1021	377	83	278,665 Lane, John.....	884 403 70
344,118 Kloitz, Joseph.....	910	412	73	407,742 Lange, Frederick L.....	857 394 68
					13 8 94

	<i>P.</i>	<i>C.</i>	<i>R.</i>		<i>P.</i>	<i>C.</i>	<i>R.</i>	
494,870 Langer, Gotthold.....	227	142	114	373,570	Lea, Richard H., and Singer, George.....	727	246	60
228,908 Langmuin, Friedrich, and Streiff, Peter.....	635	177	52	435-57	Lea, Richard H., and Singer, George.....	249	166	21
490,714 Langmuir, Wooburn.....	195	121	111	306,498	Leddell, Charles S.....	771	310	64
496,418 Langmuir, Woodburn.....	243	151	115	306,499	Leddell, Charles S.....	154	72	14
490,571 Lapsolu, George V. G.....	245	152	115	306,499	Leddell, Charles S.....	161	76	15
288,821 Larroque, Jean J. A.....	229	158	120	319,983	Leddell, Charles S.....	155	72	14
331,644 Latta, Adrian C.....	720	243	60	320,973	Leddell, Charles S.....	155	73	14
428,919 Latta, Adrian C.....	690	284	57	10,073	(R.) } Leddell, Charles S.....	157	74	14
15,297 Latta, Alexander B.....	856	393	67	320,973		157	74	14
280,633 Latta, Emmitt G.....	581	291	48	342,015	Leddell, Charles S.....	167	79	15
294,641 Latta, Emmitt G.....	583	291	48	367,049	Leddell, Charles S.....	171	82	15
294,641 Latta, Emmitt G. and Adrian C.....	583	292	48	459,585	Leddell, Charles S.....	151	79	14
301,245 Latta, Emmitt G.....	999	366	81	98,603	Lee, Benjamin F.....	821	439	88
312,277 Latta, Emmitt G.....	586	292	49	487,419	<b>Lee, Henry N.</b>	173	105	109
315,304 Latta, Emmitt G.....	718	242	60	452,397	Lee, William.....	972	360	92
321,508 Latta, Emmitt G.....	587	293	49	447,835	Leechman, George D.....	53	17	4
322,113 Latta, Emmitt G. and Adrian C.....	605	297	57	420,578	Leeper, James L.....	483	347	39
322,733 Latta, Emmitt G.....	587	293	49	420,578	Leeper, James L.....	740	261	61
323,162 Latta, Emmitt G.....	685	281	56	422,344	Leggett, William.....	1023	378	83
323,695 Latta, Emmitt G.....	133	62	12	480,593	<b>Lehmann, Karl.</b>	119	68	103
324,264 Latta, Emmitt G.....	588	293	49	310,861	Leigh, James, and McDowell, Robert W. H.....	1000	366	81
324,508 Latta, Emmitt G.....	588	294	49	490,319	Leininger, Augustus, and Shreiner, Edward M.....	192	118	111
325,428 Latta, Emmitt G. and Adrian C.....	656	227	54	490,319	Leininger, Augustus, and Shreiner, Edward M.....	252	155	116
325,944 Latta, Emmitt G.....	1004	368	81	530,910	Leni, Charles, and Millward, Thomas.....	716	241	60
326,752 Latta, Emmitt G.....	696	267	58	497,028	Lessells, Allan H.....	80	38	8
327,399 Latta, Emmitt G.....	134	62	12	455,220	Lessells, Allan H.....	39	19	4
328,235 Latta, Emmitt G.....	289	294	49	307,133	Levavasseur, Eugene.....	846	450	90
328,693 Latta, Emmitt G.....	135	63	13	438,684	L'Epplattenier, Charles.....	237	147	115
332,292 Latta, Emmitt G.....	636	227	54	455,220	Lessells, Allan H.....	386	151	32
337,271 Latta, Emmitt G.....	655	228	54	330,910	Levin, Amesach.....	708	275	59
339,436 Latta, Emmitt G. and Adrian C.....	137	64	13	495,942	Levin, Leonhard.....	230	144	114
341,811 Latta, Emmitt G.....	1006	369	81	417,428	Levison, Michael M., and Horton, James.....	192	118	111
343,959 Latta, Emmitt G.....	1007	369	81	421,277	Levison, Michael M., and Horton, James.....	155	93	107
346,292 Latta, Emmitt G.....	1008	370	81	421,936	Levison, Michael M., and Horton, James.....	708	275	59
347,357 Latta, Emmitt G.....	1009	370	81	421,936	Levison, Michael M., and Horton, James.....	708	275	59
360,101 Latta, Emmitt G.....	1	1	1	M.....	709	275	59	
376,322 Latta, Emmitt G.....	470	340	38	495,254	<b>Levy, Simon C.</b>	408	192	33
376,662 Latta, Emmitt G.....	470	349	38	264,674	Lewis, Andrew.....	635	177	52
376,892 Latta, Emmitt G.....	470	341	38	96,124	Lewis, Edward A.....	100	75	14
377,204 Latta, Emmitt G.....	69	32	7	242,784	Lewis, Edward A.....	680	225	50
377,566 Latta, Emmitt G.....	247	105	21	422,086	Lewis, Hirano E.....	603	266	57
377,990 Latta, Emmitt G.....	1013	373	82	286,835	Lewis, Joseph.....	155	93	107
378,253 Latta, Emmitt G.....	2	1	1	455,283	<b>Lewis, Walter.</b>	378	197	93
378,663 Latta, Emmitt G.....	371	144	31	471,845	Lewis, William T.....	40	23	90
379,017 Latta, Emmitt G.....	372	144	31	478,193	Lewis, William T.....	99	56	101
380,493 Latta, Emmitt G.....	248	166	21	486,935	<b>Lewis, William T.</b>	170	103	108
382,855 Latta, Emmitt G.....	1014	373	82	352,698	Lohest, Emile and Jules.....	415	194	34
387,979 Latta, Emmitt G.....	4	2	1	130,393	Libby, Asa S.....	824	449	88
391,253 Latta, Emmitt G.....	705	273	59	133,044	Libby, Asa S.....	823	449	88
391,903 Latta, Emmitt G.....	706	273	59	133,755	Libby, Asa S.....	826	441	88
392,349 Latta, Emmitt G.....	252	168	22	88,492	Libby, Hosea W.....	181	98	16
395,164 Latta, Emmitt G.....	1016	374	82	339,793	Libby, Hosea W.....	790	313	66
435,551 Latta, Emmitt G.....	95	40	9	351,872	Libby, Hosea W.....	358	139	30
440,867 Latta, Emmitt G.....	97	47	9	413,858	Libby, Hosea W.....	940	420	76
443,663 Latta, Emmitt G.....	27	13	3	490,393	<b>Libby, Hosea W.</b>	192	119	111
444,637 Latta, Emmitt G.....	29	14	3	492,997	<b>Libby, Hosea W.</b>	213	133	113
447,434 Latta, Emmitt G.....	32	16	3	294,645	Lillbridge, Freeman.....	455	332	37
448,442 Latta, Emmitt G.....	99	48	10	337,171	Lillbridge, Freeman.....	494	337	38
452,577 Latta, Emmitt G.....	712	277	59	105,701	Liming, John.....	595	211	41
455,882 Latta, Emmitt G.....	493	354	49	474,453	<b>Linder, Otto.</b>	63	36	98
457,494 Latta, Emmitt G.....	960	434	85	404,508	Lindner, William.....	496	356	41
457,494 Latta, Emmitt G.....	1039	389	79	88,574	Lindon, William.....	181	98	16
461,101 Latta, Emmitt G.....	43	22	5	354,873	Linley, Charles M., and Biggs, John.....	358	139	30
464,653 Latta, Emmitt G.....	496	357	41	354,644	Linley, Charles M., and Biggs, John.....	300	140	30
467,725 Latta, Emmitt G.....	11	7	94	302,220	Linnel, Philetus E.....	142	66	13
471,798 Latta, Emmitt G.....	39	22	66	270,320	Linsley, Edward B.....	558	255	47
472,732 Latta, Emmitt G.....	46	26	97	271,723	Linsley, Edward B.....	559	250	47
479,566 Latta, Emmitt G.....	111	63	103	476,884	<b>Lisle, Edward.</b>	83	45	100
479,946 Latta, Emmitt G.....	115	66	103	273,746	Little, James R.....	881	401	70
86,235 Laubach, William H.....	59	26	5	273,746	Little, James R.....	571	304	48
92,976 Laufer, John.....	58	29	6	10,842	(R.) } Little, James R.....	571	305	48
332,263 Laughlin, Julian.....	607	268	58	273,746		571	305	48
89,543 Laurence, H. Clay.....	283	111	24	10,843	(R.) } Little, James R.....	572	305	48
92,460 Laurence, Henry.....	58	28	6	273,746		572	305	48
178,066 Laurence, Walcott R.....	187	99	16	334,249	Little, James R.....	906	411	73
422,232 Lavender, Charles F.....	595	298	49	334,252	Little, James R.....	997	411	73
484,786 Lavender, Chas. F., and Fane, Thos.....	151	90	106	334,253	Little, James R.....	573	305	48
490,827 Lavigne, Joseph P.....	105	122	111	334,254	Little, James R.....	574	306	48
490,828 Lavigne, Joseph P.....	105	122	111	337,172	Little, James R.....	574	306	48
490,829 Lavigne, Joseph P.....	106	122	111	301,637	Little, James R.....	575	306	48
490,830 Lavigne, Joseph P.....	106	123	111	361,952	Little, James R.....	576	306	48
454,279 Lawrence, John.....	972	361	92	338,988	Little, James R.....	918	416	74
90,563 Lawson, Benjamin S.....	56	28	6	386,326	Little, James R.....	928	420	75
345,851 Lawson, Henry J.....	68	32	7	406,747	Little, James R.....	579	308	48
491,057 Lawson, Margaret H.....	199	125	111	409,475	Little, James R.....	940	425	70

P.	C.	R.	P.	C.	R.	
475,582 Little, James R.....	72	39	20,652	McConaughy, Thomas and McCollum, Jas.	856 393 67	
446,387 Little, Joseph.....	489	351	47,006	McCormick, Thomas.....	59 34 98	
452,797 Little, Joseph A.....	490	352	397,015	McCoy, Joseph.....	425 189 34	
259,592 Livingston, Henry S.....	750	322	314,701	McCoy, William D.....	400 335 37	
472,411 Livingston, Murray V., and Toney, George W.....	44	25	476,479	McCoy, William D.....	80 43 100	
295,257 Lloyd, Walter J.....	331	129	87,275	McCully, Robert.....	503 210 41	
346,203 Lloyd, Walter J., and Priest, William.....	354	137	324,393	McCune, Joseph B.....	1005 369 81	
353,793 Lloyd, Walter J., and Priest, William.....	724	245	302,763	McCune, Joseph B.....	608 269 58	
421,946 Lloyd, Walter J., and Priest, William.....	732	60	306,285	McCune, Joseph B., and Yost, Joseph L.....	661 229 54	
426,191 Lloyd, Walter J., and Priest, William.....	19	51	316,285	McCune, Joseph B., and Yost, Joseph L.....	726 246 60	
448,696 Lloyd, Walter J., and Priest, William.....	34	9	307,883	McCune, Joseph B., and Yost, Joseph L.....	661 230 54	
450,888 Lloyd, Walter J., and Priest, William.....	36	18	424,994	McCune, Joseph B., and Yost, Joseph L.....	17 8 2	
420,059 Lobben, Peder and Hanson, Olaus.....	14	7	456,771	McCune, Joseph B.....	1037 388 85	
194,607 Logan, John F.....	967	2	496,550	McCurdy, John R.....	244 152 115	
295,258 Long, David F.....	59	34	92	McDonald, George R., and Graham, Wm.		
474,138 Long, Eugene and Curtis, Wallace B.....	79	43	444,432	McDonald, George R., and Graham, Wm.		
476,233 Long, Eugene and Curtis, Wallace B.....	79	100	498,136	McDonald, Hugh.....	200 160 117	
281,001 Long, George A.....	621	172	253,481	McDonnell, Patrick E.....	749 322 62	
320,076 Long, George S.....	1003	368	477,140	McDougall, Archie.....	86 48 100	
337,774 Long, George S.....	1005	369	484,681	McDougall, Isaac S., and Smith, Geo. H., and Hartley, Richard K.....		
245,843 Long, Michael.....	876	399	69	H.....	150 89 106	
36,160 Longett, Alexis.....	178	97	89,783	McDougall, S. T.....	283 111 24	
94,325 Look, Ober.....	861	395	386,332	McDowell, Malcolm.....	929 420 75	
358,616 Loomis, William H.....	971	380	310,862	McDowell, Robert W. H., and Leigh,		
328,415 Loose, John.....	542	203	45	Jame.....	1000 366 81	
298,217 Lorenz, William A.....	161	75	375,176	McEntee, Arthur E.....	370 143 31	
303,228 Lorenz, William A.....	1000	366	448,748	McErlean, John J.....	91 44 9	
246,686 Lorenz, Ratti.....	193	101	217,286	McGaffey, Ives W.....	559 256 47	
325,548 Lose John O.....	640	179	239,428	McGann, Owen J.....	393 119 26	
303,532 Loser, Charles.....	127	59	12,140	McGilvry, Lewis T.....	505 211 41	
422,087 Loser, Charles II.....	442	186	408,845	McGlinchey, Charles E.....	731 249 61	
96,128 Lowden, George.....	290	113	24,442	McGlinchey, Charles E.....	711 276 59	
233,682 Lowden, George.....	305	119	445,125	McGlinchey, Charles E.....	82 40 8	
247,078 Lowden, George.....	410	102	33	455,474	McGlinchey, Charles E.....	493 354 40
99,096 Lowe, K. E.....	183	98	16	400,279	McGlinchey, Charles E.....	495 356 41
258,447 Lowrey, John M.....	194	102	17	405,599	McGlinchey, Charles E.....	48 25 5
239,812 Lowth, James.....	306	119	26	408,998	McGlinchey, Charles E.....	23 13 95
498,667 Lozier, Henry A.....	263	161	117	420,663	McGovern, Bernard.....	1022 378 83
23,101 Luburg Manufacturing Company.....	261	261	117	189,318	McGowan, John.....	869 397 69
391,417 Lucas, Andrew H.....	418	195	34	253,739	McGregor, Thomas.....	312 122 27
269,076 Lüdeke, Eduard.....	435	184	35	490,587	McHardy, Francis P.....	194 120 111
369,017 Ludewig, Otto.....	277	89	23	136,607	McIntyre, Samuel.....	864 395 68
170,866 Ludlow, Samuel W.....	869	397	69	470,915	McIntyre, William C.....	34 19 96
498,015 Lubben, Charles M.....	259	160	117	329,755	McIntosh, Peter E.....	201 104 18
456,779 Lukem, George B., Baker, Howard F., and Sheldon, John.....	1037	388	85	435,977	McIntyre, William C.....	963 357 91
91,550 Lund, John.....	633	176	52	474,404	McKee, Newton.....	504 258 47
482,182 Lungren, Charles M.....	132	77	105	241,395	McKenna, Thomas B.....	62 35 98
493,554 Lungren, Charles M.....	218	135	113	24,212	McKenzie, James A.....	119 56 11
305,693 Lunford, Robert B.....	430	184	35	30,160	McKenzie, Philip W.....	307 120 26
303,229 Luppen, Luppe.....	893	406	71	259,999	McKenzie, Philip W.....	499 208 41
492,754 Luther, Chas. H., Jr., and Waterman, Stephen.....	212	132	112	91,035	McKenzie, Philip W.....	499 209 41
428,313 Luthman, Charles, and Messmer, Alexander L. H.....	949	429	77	3,319	McKenzie, Philip W.....	208 41
95,791 Lutteke, Peter.....	402	190	33	41,310	McKenzie, Philip W.....	
496,266 Lutz, Wm. E., and Kopp, Theodore.....	241	149	115	317,395	McKie, Frank A.....	
466,893 Lybe, Daniel I., and Nickles, Wm. O.....	5	3	93	87,579	McKerahan, William.....	233 150 20
466,500 Lymburner, Ferdinand L.....	1	1	93	442,079	McLean, Robert.....	207 85 23
441,679 Lyman, Frank.....	777	301	65	298,999	McMahon, Matthias F.....	954 431 78
294,056 Lynch, Edward P.....	889	494	71	439,035	McMahon, James.....	197 103 17
480,599 Lynch, Wm., and Tremper, Eugene.....	120	69	103	91,035	McMillian, James W.....	953 431 78
418,982 Lyon, Fremont E.....	1021	377	83	7,650	McMullen, Richard and Day, Horace H.....	427 182 35
329,402 Lyon, Wallace.....	136	63	13	351,118	McMurray, Albert K.....	808 435 86
481,231 Macauley, Edwin W.....	124	72	104	308,442	McNab, John C., and Stilwell, Henry M.....	457 333 37
53,167 MacAuley, Thomas and Cheney, Merrick L.....	814	437	87	352,141	Macphail, James and Needham, Franklin	912 413 73
24,222 McBurney, Charles.....	809	435	87	366,332	Macphail, James and Needham, Franklin	
27,816 McBurney, Charles.....	810	439	87	M.....		
126,066 McBurney, Charles.....	824	449	88	475,142	McPherson, Donald H.....	920 416 74
468,680 McCabe, Bartholomew.....	19	11	95	470,841	Madden, Dutton.....	67 37 90
468,750 McCain, Joseph.....	20	11	95	480,600	Magennis, John.....	33 19 96
280,054 McCall, Robert S., and Joseph W.....	66	31	7	205,166	Mahedy, James.....	120 69 103
495,140 McCammon, John.....	153	71	14	491,366	Mahoney, William.....	536 201 45
437,223 McCarthy, Oxley.....	390	153	32	456,625	Malfait, Frederic.....	203 128 112
466,020 McCash, James A.....	744	203	62	369,864	Mallette, George W.....	395 155 32
88,889 McCleavey, Frederick William.....	224	156	20	304,966	Malingren, John G., and Rodine, Charles	172 81 15
359,809 McClintock, Jay.....	785	320	66	A.....	414 194 34	
331,518 McClure, Alex. W.....	67	31	7	110,057	Malby, Henry A.....	293 114 25
342,629 McClure, Alex. W.....	68	31	7	123,571	Malby, Henry A.....	293 114 25
144,551 McClure, James F.....	186	99	16	92,353	Mauheim, Chas., and Perry, Edward L.....	819 438 87
157,210 McClure, James F.....	605	91	106	92,353	ward L.....	
485,110 McClymonds, Louis K.....	153	315	50	4,148	(R.) \ Manheim, Charles, and Perry, Ed-	
20,652 McCollum, James and McConaughy, Thos.....	856	393	67	468,671	ward L.....	820 438 87
259,411 McCombs, Paul.....	555	254	40	468,672	Mann, Henry F.....	18 10 94
489,975 McComish, John J.....	188	116	110	468,673	Mann, Henry F.....	19 10 94

P.	C.	R.	P.	C.	R.				
468,674	Mann, Henry F.....	19	11	94	351,972	Meneely, Charles D., and Gibbons, John....	274	87	23
175,476	Manning, Robert S.....	786	312	66	353,935	Meneely, Charles D., and Gibbons, John....	275	88	23
494,584	Manton, Joseph P.....	225	141	114	201,265	Menez, Vincent A.....	536	201	45
446,098	Manuel, Alfred, and Hibbert, Wm. E.....	30	15	3	254,337	Mercer, Alfonso.....	360	140	30
17,623	Marble, George W.....	295	115	25	460,784	Mercer, William R.....	496	356	41
9,707	(R.) \ Marble, George W.....	296	115	25	491,578	Mercer, William R.....	297	129	112
171,623	Marble, George W.....	279	110	23	104,363	Merrens, Henry J.....	835	445	89
185,401	Marble, George W.....	64	30	6	458,181	Merrifield, Stephen.....	601	434	79
304,334	Marble, George W.....	456	332	37	337,183	Merrill, Anson P.....	770	310	64
316,047	Marble, George W.....	130	61	12	355,700	Merrill, Anson P.....	914	414	74
383,499	Marble, George W.....	104	77	15	458,974	Merrill, Anson P.....	748	265	62
383,401	Marble, William S.....	545	205	45	492,414	Merrill, Anson P.....	211	131	112
408,572	Marquardt, Frederick.....	17	10	94	249,031	Merrill, Nelson.....	311	121	26
87,678	Marden, Jesse, Jr., and Thompson, Abram- ham.....	279	291	376	291,376	Merrill, Nelson.....	329	128	28
346,667	Maret, John C.....	240	162	21	351,888	Merrill, Nelson.....	687	282	57
16,295	Maris, Jared.....	978	978	92	309,101	Merrill, Parker.....	29	17	95
16,296	Maris, Jared.....	979	979	92	352,832	Merritt, Henry W., and Foster, William C.....	381	149	31
16,430	Maris, Jared.....	979	979	92	428,313	Messmer, Alexander L. H., and Luth- man, Charles H.....	912	413	73
16,431	Maris, Jared.....	980	980	92	469,029	Messmer, Alexander L. H.....	949	429	77
16,432	Maris, Jared.....	980	980	93	89,293	Mettin, George R., and Cowles, Edwin.....	23	13	95
16,437	Maris, Jared.....	981	981	93	478,064	Metz, Charles H.....	55	27	6
16,468	Mark Charlie E.....	981	981	93	89,679	Metzgar, Hiriam T.....	95	53	101
413,949	Mark Charlie E.....	941	426	76	283	111	24		
294,668	Marks, Frank R., and Poolman, James.....	889	404	71	109,644	Mey, F. H. C.....	791	321	66
333,533	Marlin, John M.....	720	243	60	68,641	Meyer, Charles F. W.....	816	438	87
348,688	Marlin, John M.....	723	244	60	495,083	Michelin, Edouard.....	239	148	115
369,541	Marlin, John M.....	368	143	31	497,453	Michelin, Edouard.....	255	156	116
369,541	Marlin, John M.....	700	270	58	386,303	Midgley, Thomas, and Emerson, James E.....	850	452	91
388,427	Marlin, John M.....	146	68	14	386,303	Midgley, Thomas, and Emerson, James E.....	850	452	91
400,098	Marlin, John M.....	1020	376	83	386,307	Midley, Thomas, and Emerson, James E.....	850	452	91
384,993	Marlin, Marlon H.....	87	42	9	398,423	Midgley, Thomas.....	850	452	91
154,450	Marqua, Philip J.....	295	115	25	398,424	Midgley, Thomas.....	851	453	91
493,429	Marriott, Thomas R., Cooper, Freder- ick, and Keen, John.....	203	128	112	398,424	Midgley, Thomas.....	851	453	91
413,760	Marsh, Walter F.....	940	425	76	398,428	Midgley, Thomas.....	851	453	91
210,701	Marshall, Justice W.....	871	308	69	398,431	Midgley, Thomas.....	852	453	91
315,805	Marshall, Justice W.....	900	408	72	398,431	Midgley, Thomas.....	852	453	91
478,878	Marshall, Thomas B.....	105	60	102	291,069	Mikkelsen, Niels, Miller, Austin E.....	411	193	34
487,577	Marthens, Allen.....	174	105	109	438,273	Miller, Austin E.....	616	319	51
124,509	Martin, David.....	430	182	36	471,770	Miller, Austin E.....	39	22	96
440,054	Martin, Frank.....	213	109	19	86,682	Miller, Charles H., and Ellis, George.....	51	26	5
458,730	Martin, John.....	601	434	79	90,222	Miller, Charles H., and Baldwin, Orvide O.....	55	28	6
116,205	Martin, Michael.....	430	182	35	460,179	Miller, Frank.....	43	21	4
340,340	Martin, Samuel.....	220	96	19	460,180	Miller, Frank.....	43	21	5
339,446	Martin, Stephen.....	677	224	56	475,510	Miller, Frederic S.....	71	39	99
470,249	Martinez, Richard P.....	32	18	96	289,017	Miller, George W.....	506	256	47
486,230	Martinez, Richard P.....	165	100	108	473,586	Miller, George W.....	51	29	97
475,785	Mason, Frank H.....	74	40	99	477,760	Millet, Charles W.....	93	52	101
169,774	Masse, Jacob, Bodet, Louis G., and Web- ster, William.....	215	93	19	255,405	Miller, Julius V., and Shepherd, John.....	698	359	92
461,356	Mater, William J.....	45	22	5	247,775	Miller, Thomas A.....	877	400	70
452,046	Mather, Alex. C.....	958	433	78	312,147	Mills, Francis E.....	640	179	52
452,047	Mather, Alex. C.....	958	433	78	307,133	Millward, Thomas, and Leni, Chas.....	716	241	60
463,710	Mathews, James H.....	47	24	5	9,708	Minnis, T. S., (See Errata).....	178	97	16
323,052	Matteson, Jefferson W.....	233	159	20	435,665	Minnix, William H.....	420	196	34
475,130	Mattison, James D.....	60	37	99	476,670	Mitchell, Claudius H., and Veitch, Richard M.....	80	44	100
479,825	Mattison, James D.....	113	65	103	443,292	Mitchell, Joseph.....	213	109	19
498,750	Matzen, Herman.....	264	162	117	294,655	Mitchell, Oliver M.....	456	332	37
304,426	Maurino, Henry Q.....	919	416	74	266,703	Mitchell, Oliver M.....	655	226	53
481,681	Maxfield, Morgan E., and Wellstein, Joseph.....	128	74	104	190,353	Mitchell, William S.....	297	116	25
260,499	May, Leopold.....	878	400	70	271,893	Mitchell, William S.....	528	219	44
27,553	Mayall, Thomas J.....	810	436	87	470,070	Mofat, Geo. D., and Huss, Rudolph W.....	31	18	95
31,552	Mayall, Thomas J.....	811	436	87	442,779	Mogk, Victor F.....	1028	382	84
31,614	Mayall, Thomas J.....	811	436	87	200,320	Mohler, Charles F. and James B.....	870	397	69
39,237	Mayall, Thomas J.....	812	436	87	354,640	Mohr, Luie F.....	416	194	34
39,238	Mayall, Thomas J.....	812	436	87	406,661	Mohrig, Edwin.....	10	6	2
88,887	Mayall, Thomas J.....	819	438	87	434,605	Molin, Charles G.....	149	70	14
125,594	Mayall, Thomas J.....	823	440	88	22,711	Monarch Cycle Company.....	223	223	114
125,596	Mayall, Thomas J.....	824	440	88	361,310	Monnin, Alpheus C., and Filliez, Peter.....	726	246	60
494,641	Maybach, Wilhelm.....	226	141	114	376,441	Monnin, Alpheus C., and Filliez, Peter.....	159	75	14
419,591	Mayfield, Reuben N.....	563	257	47	86,856	Monroe, Joshua.....	224	156	20
97,421	Maynard, Charles A.....	291	113	25	438,935	Montgomery, James W.....	176	84	16
24,133	Mayo, W. S.....	809	435	87	473,190	Moody, David J.....	48	27	97
359,222	Meacom, George.....	848	451	90	293,347	Moore, Baldwin S.....	330	128	28
197,155	Mead, Ira W.....	870	397	99	420,750	Moore, Charles J., and Yost, Joseph L.....	15	8	2
410,645	Mead, Samuel C.....	940	425	76	448,466	Moore, Charles J., and Yost, Joseph L.....	490	351	40
457,654	Meader, George.....	494	354	80	475,464	Moore, Charles J.....	71	39	99
470,878	Mease, Ezra W.....	34	19	66	496,664	Moore, Chas. J., and Burwell, Geo. A.....	246	153	116
466,613	Meigs, Geo. W., and Ziegler, John G.....	3	2	93	496,665	Moore, Chas. J., and Burwell, Geo. A.....	246	153	116
474,327	Meigs, Geo. W., and Ziegler, John G. G. I.	61	35	98	75,953	Moore, H. C.....	531	199	44
498,479	Meisch, Michael F.....	263	161	117	92,338	Moore, Stephen.....	964	357	91
422,089	Melin, Gustaf A.....	646	216	53	470,157	Moore, Thomas C., and Crull, Solo- mon F.....	77	42	99
453,151	Mendenhall, Amos.....	602	224	50					

P.	C.	R.	P.	C.	R.			
448,358	Moore, Thomas L.	111	53	10	136,750 Nevers, William.....	534	200	44
365,015	Moore, Thomas W.	361	143	31	74,579 Nevison, Thomas Jr., and James.....	859	394	68
403,059	Moore, Thomas W.	72	34	7	4,826 Newhouse, Frederick.....	388	152	3
447,341	Moore, Van Zandt M.	672	236	55	425,240 Newhouse, Frederick.....	946	428	77
42,678	Moores, William C.	426	181	35	456,500 Newhouse, Frederick.....	394	155	32
235,551	Moran, Thomas W.	681	279	50	462,086 Newhouse, Frederick.....	396	155	32
235,552	Moran, Thomas W.	996	364	80	467,015 Newkirk, Isaac R.....	6	4	93
245,542	Moran, Thomas W.	602	265	57	224,215 Newlin, William.....	567	304	48
490,035	Morgan, Fred W., and Wright, Rufus.	188	116	110	234,196 Newlin, William.....	873	398	69
496,321	Morgan, Fred W., and Wright, Rufus.	241	149	115	283,271 Newlin, William.....	885	403	70
496,789	Morgan, Fred W., and Wright, Rufus.	247	154	116	73,029 Newman, Martin.....	531	199	44
335,297	Morgan, John F.	738	260	61	241,698 Newsam, Geo. A., and Hayes, John.....	520	220	43
473,426	Morgan, Joseph U.	49	28	97	231,347 Newton, Richard.....	304	119	26
337,975	Morgan, Schuyler W.	613	317	51	399,202 Nice, John E.....	920	417	74
86,573	Morell, James A.	180	97	16	284,052 Nichols, Mark M.....	840	447	89
238,241	Morris, Freelon.	773	299	65	391,483 Nichols, Herman, and Rose, Henry C.....	764	287	64
19,157	Morris, George L., and Wilson, William T.	798	708	67	382,658 Nickerson, Fred A.....	1014	373	82
460,242	Morris, George L., and Wilson, William T.	43	21	5	466,893 Nickles, Wm. O., and Lybe, Daniel L.....	5	3	93
496,527	Morris, James R.	244	151	115	329,938 Nicolet, Albert.....	970	360	92
496,528	Morris, James R.	244	152	115	90,774 Nielsen, Alfred.....	259	99	22
409,105	Morris, Jesse T. Jr.	23	13	95	401,995 Nipp, John, Jr.....	937	424	76
260,887	Morris, William B.	317	124	27	102,423 Nisiusdoff, Stas.....	184	99	16
485,350	Morrow, Alex P.	157	94	107	423,803 Nodder, Samuel, and Petford, Wm. H.....	484	347	39
347,954	Morse, Frederick H.	697	268	58	100,316 Nolan, John H.....	504	210	41
456,833	Morse, Preston C.	735	251	61	193,098 Nolan, John H.....	507	211	42
92,999	Morse, Thomas N.	59	29	6	498,494 Noonan, Edward T., and Schmill,			
415,117	Morsman, John A., and Highby, Edward H.	941	426	77	Joseph V.....	263	161	117
425,898	Morsman, John A., and Highby, Edward H.	947	428	77	395,061 Norman, Cornelius A., and Ellis, Robert.....	198	103	17
480,026	Morton, Augustus.	116	66	103	496,049 Normanton, Alfred and Herbert.....	251	155	116
255,004	Morton, John J.	750	322	62	393,337 Norton, Malcolm A.....	665	232	55
418,923	Mortson, George.	740	266	61	401,295 Norton, Malcolm A.....	89	5	1
462,013	Moseley, Joseph, and Blundstone, Benj.	1042	301	86	286,476 Notley, William.....	886	403	70
475,732	Moseley, Joseph, and Blundstone, Benj.	73	40	27	152,160 Nowark, Morez.....	294	114	23
258,589	Mosher, George A.	555	254	23	388,002 O'Brien, Thomas.....	103	50	10
456,631	Mosher, Samuel E.	41	20	4	388,907 O'Brien, Thomas.....	85	48	81
456,632	Mosher, Samuel E.	445	188	36	399,287 O'Brien, Thomas.....	131	61	12
477,772	Mosher, Samuel E.	93	52	101	347,503 O'Brien, Thomas.....	424	189	34
472,796	Moskovitz, Jacob D.	47	32	97	397,503 O'Brien, Thomas.....	240	162	21
88,894	Mott, Thomas H.	267	85	23	372,428 O'Brien, Thomas.....	103	50	10
454,583	Moynahan, Frederick H. S.	84	41	8	372,429 O'Brien, Thomas.....	246	165	21
96,466	Muehle, Bernard H.	61	29	6	386,603 O'Brien, Thomas.....	103	50	10
484,941	Müller, Joseph J.	152	90	106	386,604 O'Brien, Thomas.....	5	2	1
371,513	Muller, Valentine H.	102	50	10	394,287 O'Brien, Thomas.....	1015	374	82
193,988	Mulliner, Francis.	995	364	80	413,774 O'Brien, Thomas.....	378	148	31
381,504	Mullins, Richard.	207	106	18	413,775 O'Brien, Thomas.....	105	51	10
478,803	Munson, Corydon W.	105	59	192	471,625 O'Brien, Thomas.....	89	43	9
102,853	Munson, Ira F.	862	395	68	471,626 O'Brien, Thomas.....	37	21	96
219,500	Munson, Ira F.	872	398	69	468,823 O'Connor, Edward J.....	21	12	95
420,927	Munz, Theodore C., and Burgess, William D.	944	27	481	392,756 O'Day, John, and Rice, Henry M.....	932	422	75
482,866	Munz, Theodore C.	135	79	105	399,774 O'Day, John, and Rice, Henry M.....	123	71	104
463,703	Murdock, Horace B.	736	252	61	401,003 O'Key, Joseph B.....	240	148	115
249,251	Murphy, Jeremiah.	554	254	62	413,774 O'Donnell, Michael J.....	102	101	17
159,345	Murphy, John.	830	443	88	413,775 O'Donnell, Michael J.....	61	29	6
186,499	Murphy, John.	834	444	89	413,776 O'Doyle, John.....	942	426	77
296,436	Murphy, John.	841	447	90	413,777 O'Doyle, John.....	933	422	76
260,111	Murray, Joseph S.	682	279	59	414,227 Olsen, Threjae.....	529	219	44
306,514	Murray, Joseph S.	586	292	49	424,227 Olsen, Threjae.....	282	111	24
545,452	Murray, William.	671	235	55	449,271 O'Neill, Arthur.....	82	40	8
324,952	Mustard, James E.	904	410	72	449,272 O'Neill, Arthur.....	212	132	112
270,404	Myer, Frank X., Jr.	997	305	80	450,003 O'Neill, Arthur.....			
87,355	Myers, Frederick.	632	443	88	450,004 O'Neill, Arthur.....			
456,705	Myers, Henry.	1037	387	85	450,005 O'Neill, Arthur.....			
459,015	Myers, Henry.	1010	389	86	450,006 O'Neill, Arthur.....			
468,971	Myers, Henry.	22	13	95	450,007 O'Neill, Arthur.....			
477,773	Myers, Henry.	93	53	101	450,008 O'Neill, Arthur.....			
477,774	Myers, Henry.	94	53	101	450,009 O'Neill, Arthur.....			
486,884	Myers, Luther.	170	102	108	450,010 O'Neill, Arthur.....			
452,973	Nagel, Jacob, and Huelsen, Felix J.	37	18	4	450,060 Otto, Edouard C. F.....	271	86	23
455,945	Nagel, Jacob, and Huelsen, Felix J.	40	20	4	452,504 Otto, Edouard C. F.....	227	157	20
477,059	Nagal, Jacob, and Huelsen, Lelis J.	92	52	101	452,505 Otto, Edouard C. F.....	807	408	72
499,244	Naly, Sarah L., and Jones, Mary S.	272	105	118	453,350 Otto, Edward C. F.....			
98,099	Neale, Robert.	183	98	16	453,351 Otto, Edward C. F.....			
366,332	Needham, Franklin M., and Macphail, James.	920	416	74	453,352 Otto, Edward C. F.....	898	408	72
234,799	Neely, Thaddeus A.	968	359	92	453,353 Otto, Edward C. F.....			
239,076	Neff, Joseph R.	874	384	69	453,354 Otto, Edward C. F.....			
293,408	Neff, Joseph B.	888	404	71	453,355 Otto, Edward C. F.....			
428,176	Nelson, Robert L.	948	429	77	457,512 Overman, Albert II, and Hadley, Chas. F.....	310	123	27
499,245	Nesbitt, John B.	272	105	118	457,513 Overman, Albert II, and Hadley, Chas. F.....	318	124	27
257,602	Nesinger, Lawrence.	969	359	92	458,358 Overman, Albert II, and Hadley, Chas. F.....			
410,179	Neuhauer, Otto.	74	34	7	458,359 Overman, Albert II, and Hadley, Chas. F.....	321	126	27

	P.	C.	R.		P.	C.	R.
283,413 Overman, Albert H., and Hadley, Chas. F.	998	365	80	164,028 Peake, James B.	966	368	92
292,908 Overman, Albert H., and Hadley, Chas. F.	683	280	56	421,013 Peare, George R.	945	428	77
313,018 Overman, Albert H., and Hadley, Chas. F.	342	132	29	368,607 Peame, Benjamin M.	205	105	18
315,537 Overman, Albert H.	1002	307	81	492,988 Pease, Charles F.	213	133	113
329,850 Overman, Albert H.	462	336	37	492,989 Pease, Charles F.	214	134	113
329,851 Overman, Albert H.	686	281	57	492,990 Pease, Charles F.	214	134	113
331,001 Overman, Albert H.	463	336	37	242,033 Peck, Aaron D.	874	399	69
343,841 Overman, Albert H.	465	337	38	437,820 Peck, Frank E.	734	259	61
381,274 Overman, Albert H.	728	247	60	457,244 Peck, Frank E., and Barri, Henry G.	112	53	10
385,370 Overman, Albert H., and Hadley, Chas. F.	4	2	1	304,023 Peck, Mason S.	272	87	23
388,665 Overman, Albert H.	929	420	75	290,916 Peet, Benjamin F.	454	332	37
392,821 Overman, Albert H.	474	343	39	360,593 Peifer, George W., Jr., and Johnston Robert.	112	63	103
398,533 Overman, Albert H.	666	232	55	625,056 Pelton, Charles H., and Gable, Wm.	638	178	52
406,461 Overman, Albert H.	731	249	61	50,078 Percival, Leven C.	500	209	41
406,462 Overman, Albert H.	651	197	53	471,075 Perkins, Albert, and Curtis, Albert B.	34	19	96
436,993 Overman, Albert H.	1025	379	54	474,759 Perkins, Albert.	64	36	68
437,447 Overman, Albert H.	1025	380	84	494,976 Perkins, Albert.	220	137	113
438,383 Overman, Albert H.	1026	380	84	494,885 Perkins, Albert.	227	143	114
442,387 Overman, Albert H.	669	235	55	486,294 Perkins, George A.	165	100	108
446,186 Overman, Albert H.	1029	382	84	284,475 Perkins, Lyman C.	160	75	4
446,662 Overman, Albert H.	1030	382	84	309,085 Perkins, Lyman C.	161	76	15
450,816 Overman, Albert H.	1032	384	85	7,929 Perkins, Nahum S. C.	793	793	67
463,309 Overman, Albert H.	975	239	56	223,241 Perkins, Nahum S. C.	300	117	26
480,210 Overman, Albert H.	117	67	103	231,601 Perkins, Nahum S. C.	304	119	26
482,991 Overman, Charles K., and Woodward, Charles E. W.	110	52	10	325,408 Perkins, Richard B., and Heilman, Russell P.,	512	214	42
476,207 Owen, Curtis E.	79	43	100	496,132 Perkins, Robert.	240	49	115
225,760 Overstreet, William	190	100	17	124,621 Perreux, Louis G.	619	171	51
323,061 Owen, Frederick D.	132	62	12	390,897 Perret, Richard A.	594	297	49
365,091 Owen, Frederick D.	1012	372	82	9,159 Perry, Charles M., and Aspinwall, John A.	551	252	46
478,209 Owen, Frederick D.	99	56	101	93,159 (R.) Perry, Charles M., and Aspinwall, John A.	551	552	46
330,346 Owen, Herbert S.	165	78	15	93,159 (R.) Perry, Edward L.	551	552	46
392,523 Owen, Herbert S.	6	3	1	66,518 Perry, Edward L., and Torrey, Wm. A.	815	438	87
398,745 Owen, Herbert S.	88	42	9	85,395 Perry, Edward L.	818	438	87
415,072 Owen, Herbert S., and Starley, William	108	52	10	92,353 Perry, Edward L., and Manheim, Charles.	819	438	87
481,053 Owen, Herbert S.	122	70	104	4,148 (R.) Perry, Edward L., and Manheim, Charles.	820	438	87
497,965 Owen, Herbert S.	258	158	117	92,353 Perry, Edward L.	827	445	89
497,966 Owen, Herbert S.	258	159	117	210,596 Perry, Edward L.	841	447	90
466,983 Owlsley, Harry B.	5	3	93	289,854 Perry, Edward L.	844	449	90
498,688 Oyler, John T.	264	162	117	309,087 Perry, Edward L.			
300,392 Packer, John F.	892	406	71	475,020 Perry, George R., and William H., and George, Curtis K.	66	37	98
323,444 Packer, John F.	592	410	72	124,621 Perry, Richard D.	29	17	95
369,874 Packer, John F.	921	417	74	469,715 Perry, Richard D.	83	46	100
303,513 Paddock, William, and Harvey, Charles	716	241	66	476,948 Perry, Richard D.			
288,549 Padmore, Casper P.	453	331	37	389,529 Perry, Perry, Stuart.	664	314	59
80,202 Padwick, Oscar D.	603	314	50	415,799 Perry, William P.	620	174	51
311,084 Paesler, Theophilus H.	341	132	29	500,293 Persil, Eugene J. L.	281	172	119
320,577 Paesler, Theophilus H.	234	159	20	266,776 Peseneker, Albert.	436	184	35
320,678 Paesler, Theophilus H.	220	95	19	457,619 Peter, Victor.	516	208	42
328,709 Paesler, Theophilus H.	136	63	13	342,972 Petersen, Thorvald N.	352	136	29
496,616 Page, Calvin S.	245	152	115	423,803 Petford, William H., and Nodder Samuel.	484	347	39
392,748 Page, Thomas S.	93	421	75	359,629 Petit, Albert O.	739	260	61
392,749 Page, Thomas S.	932	422	75	493,338 Petrin, Edward.	216	135	113
499,574 Pagett, Charles H.	274	166	118	109,447 Petribone, C. Vallette.	991	362	80
88,189 Palme, William L.	53	27	6	357,289 Pflautz, Daniel M.	614	317	51
359,809 Palmer, Charles A. E. T.	916	415	74	490,983 Pflautz, Daniel M.	197	124	111
367,115 Palmer, Charles A. E. T.	700	270	58	317,847 Pfeiffer, Emil C.	1002	367	81
126,900 Palmer, George T.	404	191	33	495,511 Pfeiffer, George E.	233	145	114
467,642 Palmer, John F.	10	5	94	479,839 Pfleger, John.	114	65	103
476,679 Palmer, John F.	81	44	100	408,743 Phelps, Charles H.	478	345	39
476,682 Palmer, John F.	81	44	100	472,484 Phelps, Lucius J.	44	25	97
476,683 Palmer, John F.	81	44	100	472,485 Phelps, Lucius J.	45	25	97
489,714 Palmer, John F.	188	115	110	481,734 Phelps, Lucius J.	129	74	104
360,470 Palmer, John H.	593	206	49	482,487 Phelps, Lucius J.	133	78	105
233,661 Palmer, William.	305	119	26	499,174 Phelps, Lucius J.	271	105	118
442,388 Paoli, John.	760	328	63	292,351 Philbrick, Andrew J.	683	280	56
372,325 Parish, Thomas.	768	289	64	330,277 Philbrick, Andrew J., and Wood, John, Jr.	686	282	57
436,803 Parke, Kate.	771	310	64	350,999 Philbrick, Andrew J.	746	204	62
341,816 Parker, George A.	590	295	49	457,290 Phillips, Charles.	254	156	117
361,233 Parker, George A.	593	297	49	327,408 Phillips, Cornelius J.	971	360	92
245,656 Parker, Homer N., and Reed, William S.	309	121	26	482,649 Phillips, Achille.	605	358	91
469,592 Parkes, Walter.	25	14	95	488,852 Phillips, Wm., and Swain, Walter.	183	112	110
471,802 Parkinson, John.	40	22	96	391,915 Phillips, Ambrose A.	931	421	75
89,066 Parry, George T.	268	85	23	457,200 Phillips, Charles.	41	20	4
202,665 Parsons, Henry F.	298	116	25	11,331 (R.) Phillips, Charles.			
319,844 Partridge, Andrew.	1003	368	81	445,574 Phillips, Charles.			
375,682 Partridge, Andrew.	1013	372	82	150,255 Phillips, Oscar E.			
415,253 Pattison, Sidney.	486	345	39	20,824 Phillips, Walter.			
418,789 Patton, John H.	660	335	37	350,080 Phillips, Walter.			
316,649 Paussey, Herbert J., and Crowdien, Chas. T.	102	50	19	408,516 Phillips, Walter, and Smith, Robert W.	780	277	65
342,925 Payne, John.	465	337	38	445,574 Phillips, Walter,	671	235	55

	P.	C.	R.		P.	C.	R.
416,493 Phillips, Walter, <sup>and</sup> Smith, Robert W.....	255	1/0	22	309,740 Racine, Henry.....	339	131	29
88,507 Pickering, Thomas R.....	53	27	6	73,538 Raddin, John.....	859	394	68
316,566 Pierce, Charles P.....	844	449	90	9,063 (R.) } Raddin, John.....	859	394	68
463,283 Pinkert, Georg.....	520	219	44	72,538 (R.) } Raddin, John.....	859	394	68
90,869 Piper, J. F.....	250	90	22	91,379 Raffington, Matthew G., and Spofford,			
480,930 Pizzeay, William J.....	116	66	103	Fisher A.....	182	98	16
88,205 Plass, Reuben H.....	53	27	6	458,113 Rage, John C.....	495	355	49
152,681 Pohl, Charles R. M.....	260	90	22	115,238 Raiford, Philip H.....	786	312	66
499,581 Polhamus, Isaac.....	274	166	118	120,741 Ramsay, George M.....	992	363	80
421,969 Pond, Samuel N.....	680	225	56	73,108 Ranceau, John.....	531	199	44
396,802 Pool, Francis W.....	379	148	31	270,480 Randall, Francis W.....	558	255	47
408,745 Pool, Francis W.....	384	150	31	270,481 Randall, Francis W.....	881	401	70
285,512 Post, John W., and Charles F.....	229	157	20	37,028 Randolph, Frank D.....	662	230	54
408,430 Potter, Jonas.....	442	186	36	95,265 Randolph, P. F.....	820	439	88
287,717 Potter, Samuel A.....	452	331	37	492,337 Randolph, William.....	210	131	112
306,280 Powell, Abram G.....	695	266	57	80,341 Rankin, James.....	282	111	24
452,640 Powell, Abram G.....	100	49	10	425,697 Rankin, William G.....	696	284	57
365,488 Powell, George M.....	244	164	21	452,840 Rasmussen, Einar, and Hall, Orlander C.....	459	433	78
368,167 Powell, James C.....	205	105	18	460,391 Rastetter, Louis, and Siebold, Crist.....	113	54	11
313,234 Powers, Frank B.....	695	266	57	449,385 Rathburn, John O.....	674	238	55
298,500 Powers, Lyman A.....	880	405	71	99,687 Rathmann, Henry, and Johnson, Geo. H.....	114	54	11
308,794 Pratt, Charles E.....	1000	366	81	433,602 Raubut, Jochan F.....	420	166	34
310,540 Pratt, Charles E., and Wallace, Albert E.....	716	241	60	482,100 Rawle, John.....	131	77	105
312,219 Pratt, Charles E.....	458	334	37	285,114 Ray, James H.....	327	127	28
318,500 Pratt, Charles E.....	656	226	54	247,686 Ray, John L.....	538	202	45
41,910 Pratt, E. L., and Thompson, John B.....	988	361	79	88,738 Read, J. B.....	54	27	6
3,535 Pratt, Samuel E.....	973	92	381,722 Reade, Charles A.....	929	419	75	
491,591 Pray, Joseph F.....	207	129	112	420,416 Readio, Arthur J. E.....	708	275	59
341,386 Prescott, Charles A.....	722	244	60	172,200 Reamer, Hiriam J., Harley, Madison M., and Stockdale, Cornelius F.....	994	363	80
233,640 Pressey, George W.....	150	75	14	483,621 Reaney, David L.....	144	85	106
234,722 Pressey, George W.....	160	75	14	431,529 Redlinger, Michael.....	93	45	9
384,543 Price, Abel F.....	70	33	56	452,082 Redlinger, Michael.....	653	199	53
243,346 Price, John B.....	682	279	63	356,600 Redman, Edward.....	725	246	60
362,853 Pool, George.....	757	325	71	385,130 Redman, Thomas.....	664	231	54
294,668 Poolman, James, and Marks, Frank R.....	880	404	71	385,130 Redman, Thomas.....	664	231	54
354,840 Pope, Harry M.....	592	296	49	306,177 Redmond, Edmund.....	738	259	51
365,702 Pope, Harry M.....	368	143	31	361,024 Reed, Charles M., and Frazee, William C.....	615	318	51
373,850 Pope, Harry M.....	727	246	60	99,782 Reed, George P.....	214	93	19
375,714 Pope, Harry M.....	727	247	60	476,215 Reed, George T.....	77	42	99
379,907 Pope, Harry M.....	665	231	54	476,216 Reed, George T.....	77	42	100
381,165 Pope, Harry M.....	470	341	38	94,839 Reed, John A.....	861	395	68
13,386 Pope, John L.....	973	92	92	161,272 Reed, John Van D.....	831	443	89
13,387 Pope, John L.....	974	974	92	7,442 (R.) } Reed, John Van D.....	831	443	89
13,390 Pope, John L.....	974	974	92	161,272 Reed, John Van D.....	831	443	89
13,400 Pope, John L.....	975	975	92	161,273 Reed, John Van D.....	831	443	89
13,410 Pope, John L.....	975	975	92	44,425 Reed, Thomas L., and Hoxsie, David K.....	812	436	87
13,412 Pope, John L.....	976	976	92	51,052 Reed, Thomas L., and Hoxsie, David K.....	813	437	87
13,413 Pope, John L.....	976	976	92	54,009 Reed, Thomas L., and Hoxsie, David K.....	814	437	87
13,414 Pope, John L.....	977	977	92	64,362 Reed, Thomas L.....	815	437	87
13,432 Pope, John L.....	977	977	92	103,369 Reed, Thomas L.....	822	439	88
13,433 Pope, John L.....	978	978	92	124,914 Reed, Thomas L.....	823	440	88
486,683 Porter, William S.....	169	102	108	125,331 Reed, Thomas L.....	823	440	88
419,488 Post, Charles B., and Arnold, Daniel J. C.....	943	427	77	184,997 Reed, Thomas L.....	834	444	89
442,456 Post, Charles B.....	954	432	78	426,855 Reed, Willard S.....	20	10	2
93,833 Purvis, Adam.....	532	200	44	245,656 Reed, William S., and Parker, Homer N.....	309	121	26
89,835 Price, Virgil.....	980	362	80	102,322 Reed, William, and Rhodes, Joel H.....	504	210	41
382,899 Pridmore, Henry E.....	927	419	75	481,821 Rees, Jonathan.....	120	75	104
346,208 Priest, Wm., and Lloyd, Walter J.....	354	137	30	334,469 Regnier, Theophile J.....	464	336	38
353,793 Priest, Wm., and Lloyd, Walter J.....	724	245	60	230,250 Reid, Joseph.....	118	56	11
421,949 Priest, Wm., and Lloyd, Walter J.....	732	250	61	354,584 Reiner, Isaiah H.....	913	414	74
426,191 Priest, Wm., and Lloyd, Walter J.....	19	9	2	87,245 Reinhardt, John, and Christian, Andrew.....	427	182	35
448,966 Priest, Wm., and Lloyd, Walter J.....	34	18	4	87,249 Reinhardt, John.....	503	210	41
450,888 Priest, Wm., and Lloyd, Walter J.....	36	18	4	95,515 Reinhardt, John.....	226	157	20
249,895 Prindle, Frank L., and Campbell, Amer F.....	554	254	46	439,687 Reinhold, Franz J.....	269	85	23
360,392 Prindle, Frank P., and Koyl, C Herschel.....	767	284	60	192,189 Remington, De La Fayette.....	870	397	69
244,266 Prosser, Trent T.....	876	399	69	244,931 Remnyson, William.....	119	56	11
253,098 Prosser, Treat T.....	878	400	70	293,081 Remnyson, William.....	126	59	12
14,929 Puffer, A. D.....	808	435	86	379,812 Renouf, Philipp S. C. F., and Boothroyd, Isaac W.....	663	231	54
381,590 Puffer, Stephen.....	026	419	75	439,188 Reynolds, Charles J.....	953	431	78
20,839 Pugh, Charles H.....	805	805	67	46,705 Reynolds, Harvey A.....	500	209	41
236,454 Pullen, Joseph.....	499	192	33	8,252 (R.) } Reynolds, Harvey A.....	200	113	24
23,787 Punderford, James.....	809	435	87	46,705 } Reynolds, Harvey A.....	200	113	24
60,555 Punderford, James A and James.....	815	437	87	46,705 } Reynolds, Harvey A.....	200	113	24
389,162 Purdy, William J.....	971	360	92	46,705 } Reynolds, Harvey A.....	200	113	24
101,310 Purroy, Frederick L.....	504	210	41	54,207 Reynolds, Harvey A.....	501	210	41
465,998 Pursell, Augustus.....	737	252	61	80,425 Reynolds, Harvey A.....	502	210	41
287,990 Quatremaine, George W.....	327	127	28	90,579 Reynolds, James.....	286	112	24
473,959 Quearly, John T.....	57	33	98,494,562 Reynolds, Stephen D.....	73	34	7	
427,110 Quevedo, Narciso T.....	601	223	50	499,440 Rhind, Frank.....	273	166	118
267,589 Quinn, Phineas.....	606	315	50	50,415,195 Rhoades, Hal V. and William H.....	37	18	4
47,220 Quinn, William.....	426	181	35	455,058 Rhoades, Leonard W.....	492	354	40
102,321 Quinn, William.....	202	114	25	76,814 Rhoades, Thomas.....	603	314	50
159,770 Quinn, William.....	295	115	25	102,322 Rhoades, Joel II., and Reed, William.....	504	210	41
90,302 Racey, William H.....	779	277	65	387,814 Ribble, Geo. B. M., and Spencer, Chas. C.....	540	205	45

P.	C.	R.	P.	C.	R.			
375,426 Ricard, Arthur P.....	922	418	74	334,301	Rosebaugh, John C., and Stahl, Harlow C.....	507	412	73
425,390 Rice, Charles D.....	18	9	2	186,580	Ross, Abbott Q.....	523	211	41
473,408 Rice, Charles D.....	49	28	97	209,777	Ross, Abbott Q.....	508	212	42
475,343 Rice, Charles D.....	68	38	99	104,208	Ross, John D.....	863	395	68
475,344 Rice, Charles D.....	68	38	99	210,271	Ross, Abbott Q.....	509	212	42
316,661 Rice, David H.....	719	243	60	343,549	Ross, Charles H.....	774	300	65
326,244 Rice, David H.....	345	133	29	380,221	Ross, Frederick J., and William H.....	523	221	43
326,245 Rice, David H.....	346	134	29	459,510	Ross, Henry C.....	543	181	52
331,330 Rice, David H.....	957	227	54	488,920	Ross, William L.....	22	12	95
331,331 Rice, David H.....	957	227	54	481,197	Roth, Charles H.....	124	72	104
336,588 Rice, David H.....	721	243	60	335,241	Rothgierssen, Georg.....	494	336	38
342,875 Rice, David H.....	166	79	15	392,275	Rothgierssen, Georg.....	781	278	65
348,557 Rice, David H. and Lepine H.....	355	138	39	709,197	Rourk, Francis.....	285	111	24
348,691 Rice, David H.....	724	244	60	90,316	Rourk, Francis.....	285	111	24
348,692 Rice, David H.....	1010	371	81	9,953 (R.)	Rourk, Francis.....	285	111	24
349,746 Rice, David H.....	1010	371	82	90,310	Rourk, Francis.....	285	111	24
357,661 Rice, David H.....	170	81	15	384,643	Rourk, Francis.....	144	67	13
388,446 Rice, David H.....	147	69	14	444,582	Rouvre, Camille A.....	392	153	32
392,756 Rice, Henry M., and O'Day, John.....	922	422	75	90,585	Rowe, Philip C.....	286	112	24
350,994 Rich, Willard G.....	168	80	15	497,869	Rowe, Samuel.....	258	158	117
350,995 Rich, Willard G.....	169	80	15	452,196	Rowen, Nelson.....	38	19	4
489,502 Rich, Willard G., and Sager, James H.....	187	114	110	309,737	Rowlett, Jacob V.....	862	406	71
252,329 Richardson, Edmund O., and Jean E.....	121	57	11	22,413	Royal Circle Works.....	200	200	111
252,624 Richardson, Jean E.....	714	240	59	42,735	Rusbam, Christian.....	993	357	91
442,733 Richards, Hubert P., and Elliott, Sterling.....	1028	382	84	32,274	Rucker, Martin D.....	159	74	14
306,284 Richardson, Chester C.....	766	288	64	12,061	Rudge, D. & Co.....	795	795	67
341,049 Richardson, Edwin A.....	686	282	57	319,130	Rudding, William A., and Coffin, John F.....	131	61	12
217,550 Richardson, John D.....	748	321	62	408,634	Rudy, William H.....	383	150	31
495,709 Richmond, Josiah M.....	234	146	114	321,642	Rugally, Adam.....	437	181	39
259,212 Richter, Julius.....	410	103	33	217,241	Ruggles, Stephen P.....	300	117	26
497,501 Richter, William H.....	255	157	116	400,148	Ruhmann, John D., and Eckenroth, Geo.....	263	92	22
442,393 Richwine, William.....	1028	384	84	325,278	Rushmer, Benjamin, and Joyce, George A.....	994	410	73
459,614 Richwine, William.....	1041	390	86	250,289	Russell, Henry T.....	507	304	48
497,549 Rider, Charles M.....	256	157	116	250,080	Russell, Henry T.....	508	304	48
100,448 Rider, John T., and Bird, James R.....	822	439	88	250,080	Russell, Henry T.....	509	304	48
473,525 Ridge, Joseph.....	50	28	97	477,705	Russell, Madison J.....	92	52	101
234,061 Rieter, Bartholoma.....	606	315	50	353,385	Rust, Lucia A.....	169	80	15
448,854 Riess, Rudolph William.....	34	17	4	493,650	Ryder, Edgar F.....	219	136	113
453,713 Riess, Rudolph W.....	781	278	65	342,467	Ryland, Cain T., Jr.....	644	215	53
469,722 Riess, Rudolph W.....	30	17	95	209,117	Sachs, Heinrich.....	328	127	28
292,179 Riley, Christian F.....	412	103	34	444,642	Sachtelben, William L., Walters, John F., and Allen, Thomas G., Jr.....	778	302	65
Riley, James.....	807	435	86	444,642	Sachtelben, William L., Walters, John F., and Allen, Thomas G., Jr.....	488	350	40
252,971 Kintelman, August.....	449	330	36	442,207	Sager, James H.....	491	352	40
242,157 Ritchie, Edward S.....	749	322	62	453,212	Sager, James H.....	114	65	103
266,527 Ritzenhouse, Frank.....	123	57	11	479,845	Sager, James H.....	114	65	103
105,257 Roberts, Samuel D., and Dingee, Montgomery.....	505	210	41	479,840	Sager, James H.....	187	114	110
461,588 Roberts, William E.....	45	23	5	500,156	Sager, James H.....	280	170	119
419,562 Robertson, James C.....	548	206	46	500,157	Sager, James H.....	280	170	119
477,069 Robertson, Joseph B.....	94	53	101	500,158	Sager, James H.....	280	170	119
483,583 Robertson, Thomas W.....	143	85	106	15,677	St. George's Engineering Company.....	795	795	67
327,809 Robertson, William H.....	970	360	92	475,613	Saladee, Cyrus W.....	72	39	99
484,675 Robinson, Arthur W.....	150	89	106	480,055	Saladee, Cyrus W.....	162	98	107
87,204 Robinson, Charles H.....	52	26	5	486,056	Saladee, Cyrus W.....	103	68	107
88,251 Robinson, Daniel T.....	279	110	23	486,197	Saladee, Cyrus W.....	104	69	108
340,617 Robinson, Henry A.....	352	136	29	232,261	Salomon, Nahum, and Hancock, James L.....	996	304	80
402,018 Robinson, John T.....	789	313	66	232,261	Salomon, Nahum, and Hancock, James L.....	440	329	36
407,876 Robinson, Joseph E.....	547	205	46	236,570	Salamon, Nahum.....	472	342	38
483,084 Rockwell, Edward D.....	137	80	105	384,473	Salter, George, and Walker, John.....	440	185	39
483,238 Rockwell, Frederick C.....	139	81	105	397,144	Sams, Hezekiah K.....	143	85	106
498,888 Rockwell, Frederick C.....	268	163	118	17,942	Sampson, George T.....	542	203	45
354,656 Rodcap, George W.....	301	140	30	425,055	Samuels, Asser J.....	668	234	55
376,551 Rodcap, George W.....	370	141	31	425,055	Samuels, Asser J.....	279	110	23
386,896 Rödel, Franz L.....	979	225	56	87,205	Samuels, Isaac.....	321,758	321,758	72
325,014 Rodes, Robert, Jr.....	606	297	58	303,753	Sandborn, William F.....	74	34	7
353,504 Rodes, Robert, Jr.....	607	268	58	483,585	Sanderson, Charles, and Kinne, Porter S.....	541	203	45
394,135 Roedel, Franz L.....	679	225	56	478,715	Sandgren, Arvid J.....	143	85	106
407,709 Roeth, Louis.....	11	6	94	321,753	Santee, Elmer V.....	102	58	102
468,538 Rodgers, James G., and Grant, Arthur W.....	16	9	94	470,707	Sattley, Marshall.....	573	305	72
304,966 Rodine, Charles A., and Malmgren, John G.....	414	194	31	470,707	Saunder, Samuel L.....	992	409	48
230,858 Roff, Wm. H., and Tripler, Charles E.....	597	222	50	488,222	Saurbrey, George J.....	33	19	96
232,783 Roff, Wm. H., and Tripler, Charles E.....	117	56	11	493,572	Savene, John W.....	924	418	75
Rogers, James H.....	986	361	79	93,753	Sawhill, S. H.....	939	425	76
154,913 Rogers, Lewis H.....	867	396	69	222,537	Sawyer, Sylvester.....	114	54	11
389,855 Rombauer, Robert J.....	277	89	23	225,232	Sawyer, Sylvester.....	116	55	11
94,842 Rood, M. L.....	226	156	20	260,053	Sawyer, Sylvester.....	117	55	11
7,874 Root, Charles H., and Lamb, John.....	856	393	67	413,104	Saxton, Daniel W.....	210	107	18
210,435 Root, John B.....	189	100	17	446,175	Scantlebury, William.....	30	15	3
404,657 Root, Miles C.....	938	424	76	287,476	Schaaf, Albert E.....	582	291	48
332,005 Roper, Beverly.....	201	104	18	354,638	Schaaf, Albert E., and Haynes, Cidon, Jr.....	592	206	49
399,285 Rose, Aaron G.....	730	248	61	446,819	Schaap, Alex. K., and Ostergren, Otto F.....	788	313	66
391,483 Rose, Henry C., and Nichols, Herman.....	704	287	64	309,566	Schad, Barnhard, and Hoffman, Geo.....	898	408	72
459,335 Rose, Stephen J.....	1041	389	80	345,344	Schad, Barnhard.....	914	414	74
				433,542	Schaefer, Peter.....	264	92	22

	P.	C.	R.		P.	C.	R.	
480,477 Schaefer, Wilhelm.....	118	68	103	496,909 Shank, Orey D.....	250	155	116	
291,781 Schaffer, Charles M.....	639	178	52	388,455 Sharbonneau, Eli.....	930	420	75	
297,300 Schaffer, Charles M.....	639	178	52	415,740 Sharp, Archibald.....	109	52	10	
202,056 Scharf, Samuel R.....	597	212	42	123,365 Sharp, Joseph.....	823	440	88	
149,416 Scharff, Friedrich C.....	186	99	16	166,151 Shaw, Edward.....	868	397	69	
63,433 Scheen, Joseph.....	501	210	41	213,354 Sheffield, George S.....	552	253	46	
335,964 Scheidler, Reinhard.....	908	412	73	9,571 (R.) } Sheffield, George S.....	552	253	46	
315,346 Schember, Philipp.....	900	408	72	213,254 Sheffield, George S.....	552	253	46	
381,956 Schemmel, Julius.....	539	205	45	10,393 (R.) } Sheffield, George S.....	552	253	46	
299,017 Schenck, Junius, and Stowe, Benj. L.....	842	448	90	213,254 Sheffield, George S.....	552	253	46	
299,018 Schenck, Junius, and Stowe, Benj. L.....	842	448	90	266,903 Sheldon, George S.....	556	254	47	
285,655 Scherling, Rudolph C.....	655	226	53	264,481 Sheldon, George S.....	557	255	47	
449,458 Schieding, Andrew W.....	394	155	32	259,222 Shelburne, Cephas.....	424	189	34	
380,770 Schiermeyer, Henry W.....	373	145	31	456,779 Sheldon, John, Lukin, George B., and Baker, Howard F.....	1037	388	85	
447,478 Schindler, Joseph.....	33	16	4	481,428 Shellen, Abram C.....	125	72	104	
409,758 Schloemer, Gottfried, and Hausknecht, Edward.....	264	92	22	499,600 Sherbony, Walter.....	275	166	118	
231,622 Schlüter, Henry.....	304	119	26	255,465 Shepherd, John, and Miller, Julius V.....	968	359	92	
299,083 Schlüter, Rudolf.....	536	201	45	379,250 Sheridan, William.....	924	418	75	
171,424 Schmackers, Anton.....	506	211	41	442,832 Sheridan, William.....	1028	382	84	
271,524 Schmetz, Louis.....	451	330	36	468,308 Sherman, Louie A.....	16	9	94	
498,494 Schmid, Joseph V., and Noonan, Edward T.....	263	161	91	453,514 Shier, John.....	38	19	4	
91,169 Schmitz, Friedrich.....	259	90	22	210,231 Shire, John.....	65	30	7	
371,374 Schmitt, Karl.....	369	143	31	243,166 Shireef, Charles J.....	66	30	7	
157,547 Schneider, Charles.....	495	191	33	471,292 Shorey, Charles R.....	35	20	96	
319,329 Schneider, Hippolyte.....	261	91	22	499,929 Shortsleeve, William H.....	197	123	111	
474,445 Schoch, Martin L.....	63	35	98	198,150 Shreiner, Edward M., and Leininger, Augustus.....	192	118	111	
361,027 Schoening, Charles J.....	917	416	74	494,088 Shurtleff, Asahel M.....	221	137	113	
366,690 Schoening, Charles J.....	244	164	21	494,089 Shurtleff, Asahel M.....	221	137	113	
416,016 Schrader, Frederick.....	75	35	8	310,620 Shute, Richard G.....	763	286	63	
420,922 Schrader, Frederick.....	732	249	61	480,441 Siar, William, and Dunn, Charles H.....	118	68	103	
466,577 Schrader, Frederick.....	2	2	93	460,031 Siboldi, Crist, and Rastetter, Louis.....	113	54	11	
473,672 Schrader, George H. F.....	51	29	97	417,550 Sigert, Friedrich A., and Döring, Emil.....	739	260	61	
473,673 Schrader, George H. F.....	51	29	97	424,804 Sigert, Friedrich A., and Döring, Emil.....	749	261	61	
483,172 Schrader, George H. F.....	139	81	105	497,830 Siggons, Louis K.....	257	158	117	
484,509 Schrader, George H. F.....	149	88	106	497,831 Silberg, Enoch.....	258	158	117	
497,028 Schreiner, Edward M., and Leininger, August.....	252	155	116	259,589 Silver, Samuel N.....	311	121	26	
379,290 Schroeter, Waldemar.....	702	58	293,366 Silver, Samuel N.....	607	315	50		
398,455 Schubert, Gustav A.....	381	149	31	193,895 Simmons, Francis H., and Kilner, George.....	403	191	33	
342,934 Schulze, Johann H.....	425	189	79	281,933 Simmons, Frederick G.....	853	394	68	
442,240 Schulze, Johann L. F.....	223	97	19	72,233 Simmons, Thomas F.....	885	403	70	
442,240 Schulze, Johann L. F.....	223	97	20	459,530 Simon, Charles F.....	854	454	91	
454,976 Schweers, Raphael.....	39	19	4	93,915 Simon, Louis T.....	289	113	24	
436,073 Schweitzer, Max.....	78	36	8	94,059 Simon, Xavier.....	401	198	33	
322,071 Schwickerdt, August, Wilhelm, and Edward.....	610	316	50	69,595 Simpson, Joseph.....	56	28	6	
276,898 Scott, Emmet H., and Frenier, Joseph.....	882	401	70	480,349 Sinclair, Finlay.....	117	67	103	
478,643 Scott, Emmet H.....	101	57	102	91,679 Sinclair, Lucius A.....	288	112	24	
478,644 Scott, Emmet H.....	101	57	102	102	74,507 Singer, George.....	794	794	67
496,007 Scott, Erastus W.....	239	148	115	373,570 Singer, Geo., and Lea, Richard H.....	727	246	60	
467,984 Scott, Robert.....	15	9	94	382,837 Singer, Geo., and Lea, Richard H.....	240	166	21	
340,254 Scott, Robert P.....	721	244	66	429,818 Singer, George.....	1023	378	84	
142,285 Scott, Sylvester D.....	186	99	16	435,157 Singer, Geo., and Lea, Richard H.....	771	310	64	
3,979 Scripture, Eliphlet S.....	855	393	67	444,141 Singer, George.....	29	14	3	
242,161 Scuri, G. Battista.....	636	177	52	395,881 Sinkler, James F.....	616	318	51	
169,392 Seagrave, Frederic S.....	605	315	50	58,815 Skidmore, Samuel M.....	421	188	34	
439,359 Seale, Elias A.....	1026	381	84	85,337 Skidmore, Samuel M.....	399	190	33	
449,442 Seale, Frank.....	213	108	19	184,435 Slemer, Frank G.....	506	211	41	
95,521 Searing, Theodore.....	532	200	46	261,395 Sloan, Benjamin F.....	228	157	20	
486,599 Seddon, Edward H.....	167	100	108	349,532 Slocomb, John T.....	163	86	15	
485,335 Seebicke, George.....	156	93	107	483,875 Slocum, Fitz M.....	145	86	106	
298,754 Seely, Horace C.....	800	405	71	481,070 Slocum, Martha E.....	123	71	104	
339,430 Seiler, Albert P.....	784	320	66	490,369 Sloper, Thomas B.....	102	118	111	
499,044 Selden, Edward G., and Chamberlain, George D.....	270	164	118	381,590 Slutz, Marion.....	374	145	31	
395,968 Sell, Edgar E.....	232	158	20	472,487 Smalley, Martin D.....	45	20	97	
447,741 Semple, Harry.....	33	16	4	366,638 Smallman, James W.....	720	246	60	
279,448 Senseny, Edgar M.....	702	286	63	479,470 Smallwood, George T.....	110	62	103	
474,704 Sequira, Augustus.....	64	36	95,914 Smart, Charles W.....	236	147	115		
21,014 Sercombe-Bolts Manufacturing Co.....	50	50	98	211,867 Smith, Andrew A.....	537	201	45	
20,588 Sercombe, Parker H.....	805	805	67	211,868 Smith, Andrew A.....	537	201	45	
285,933 Serrell, Harold.....	762	286	63	249,207 Smith, Budd.....	423	188	34	
373,911 Serrell, Harold.....	768	290	64	91,682 Smith, Charles H., and Walker, George D.....	57	28	6	
87,713 Serrell, Lemuel W.....	280	110	23	262,990 Smith, Charles II.....	879	400	70	
300,516 Settle, Edward R.....	716	241	68	428,356 Smith, Daniel II.....	21	11	2	
453,215 Severin, Julius.....	959	433	78	401,200 Smith, Daniel H.....	202	127	112	
455,363 Seymour, George E.....	493	354	40	93,016 Smith, David R.....	280	113	24	
81,882 Seymour, George W.....	860	394	68	477,277 Smith, Elias.....	88	40	100	
394,885 Seymour, Grant.....	934	422	76	90,031 Smith, George C.....	819	458	87	
325,019 Shakespeare, Thomas.....	344	133	29	92,381 Smith, George C.....	820	439	88	
192,022 Shaller, John.....	298	116	25	99,908 Smith, George C.....	821	439	88	
92,166 Shanabrook, D. S.....	428	182	35	484,681 Smith, George H., Hartley, Richard K., and McDougall, Isaac S.....	150	89	106	
287,732 Shank, Henry K.....	559	256	47	181,602 Smith, Herbert S.....	995	363	80	
289,151 Shank, Henry K.....	328	127	28					

P.	C.	R.	P.	C.	R.			
398,548	Smith, Hezekiah B.....	629	174	51	328,863 Starbuck, Calvin T.....	462	336	37
47,580	Smith, Henry.....	530	199	44	109,083 Starkweather, Archibald, and Wederkirch, Carl O.....	519	220	43
90,032	Smith, Hugh.....	284	111	24	Starley, James, John M., and William.....	796	766	67
338,310	Smith, James M.....	847	450	90	16,702 Starley, John K.....	320	125	27
196,943	Smith, John, and Thurston, Edward T.....	64	30	6	17,231 Starley, John K.....	390	205	49
89,605	Smith, John C.....	55	27	6	351,001 Starley, John K.....	501	295	49
230,660	Smith, John S.....	446	329	36	352,841 Starley, John K.....	591	295	49
476,085	Smith, John S.....	76	41	99	353,330 Starley, John K.....	591	295	49
298,632	Smith, Melvin L.....	800	405	71	18,820 Starley, John M.....	682	982	93
241,507	Smith, Melvin L.....	874	398	69	415,072 Starley, William, and Owen, Herbert S.....	108	52	10
441,857	Smith, Quitman A.....	772	311	95	328,353 Starr, Henry N.....	135	63	12
498,510	Smith, Robert W., and Phillips, Walter.....	780	277	95	284,509 Stassen, Joseph J.....	322	126	27
416,493	Smith, Robert W., and Phillips, Walter.....	255	170	22	112,641 Staudt, Manassa.....	429	182	35
416,493	Smith, Robert W., and Phillips, Walter.....	255	170	22	209,129 Stagaard, Hans H., and Ellwood, Reuben S.....	801	405	71
204,770	Smith, Samuel C.....	607	358	92	86,700 Stearns, Caleb S.....	980	362	80
382,913	Smith, Sidney.....	172	82	15	486,511 Steele, Benjamin M.....	223	223	114
380,358	Smith, Willard A., and Weston, Irving A.....	926	419	75	22,710 Stearns, E. C., & Co.....	467	101	108
357,110	Smith, Willard A., and Weston, Irving A.....	242	163	21	221,255 Steel, Robert.....	408	102	33
409,753	Smith, William.....	30	17	95	208,861 Steel, Robert.....	209	117	20
476,422	Smith, William C.....	79	43	100	211,116 Steel, Robert.....	299	117	26
479,851	Smith, William C.....	115	66	103	376,051 Steel, Robert.....	207	106	18
18,746	Smith, William E.....	982	982	93	471,908 Steers, William, and Hunt, Harry.....	41	23	96
359,745	Smith, William E. (See Errata).....	916	415	74	492,375 Steers, William.....	211	131	112
385,074	Smith, William E.....	688	283	57	375,065 Steffa, James F.....	416	194	34
391,493	Smith, William E.....	104	50	10	482,392 Stein, Charles.....	133	78	105
392,973	Smith, William E.....	6	3	1	485,434 Stein, Charles.....	158	95	107
398,005	Smith, William E.....	380	148	31	202,143 Stein, Philip H.....	887	494	91
493,153	Smith, William E.....	89	43	9	487,789 Stenberg, John A.....	175	106	109
89,443	Smith, William H.....	282	111	24	88,881 Stenersen, Erik, and Thurston, Henry W.....	144	85	106
92,485	Smith, William H.....	58	28	6	270,257 Stevens, Abram W.....	881	401	70
351,942	Smith, William N.....	359	140	30	172,666 Stevens, David A.....	966	358	92
392,234	Smith, William W.....	932	421	75	473,434 Stevens, John C.....	49	28	97
20,863	Smith Wheel Manufacturing Co.....	807	807	67	379,016 Stevens, William F.....	88	42	9
447,779	Snoody, Abner.....	957	432	78	293,284 Stevens, William X.....	738	259	61
380,059	Snowden, Clarence.....	790	313	66	148,257 Stewart, Sylvester N.....	345	200	44
363,011	Snyder, Francis.....	600	229	54	88,750 Stickney, Charles W.....	281	110	24
302,044	Snyder, Peter A.....	541	203	45	345,188 Stiles, George A.....	754	323	63
394,409	Snyder, Peter A.....	546	205	46	24,403,993 Stillman, Augustus M., and Bower, Edwin.....	789	314	66
89,947	Snyder, Wm. B., and House, James A.....	282	111	24	328,603 Stillman, Charles F.....	511	213	42
47,3970	Snyder, Waldo V.....	58	33	98	377,869 Stillman, Charles F.....	371	144	31
475,622	Snyder, Waldo V.....	72	49	99	381,038 Stillman, Charles F.....	513	214	42
492,060	Snyder, Waldo V.....	208	130	112	488,494 Stillman, George F., and Brown, Alex. T.....	180	111	110
492,061	Snyder, Waldo V.....	209	130	112	495,277 Stillman, George F.....	230	144	114
492,062	Snyder, Waldo V.....	209	130	112	307,000 Stillman, Walter Jr.....	40	20	4
492,063	Snyder, Waldo V.....	209	130	112	319,934 Stillwell, Henry McA.....	456	332	37
400,453	Sonnesen, Christian.....	113	54	11	276,600 Stillwell, Henry M., and Kenfield, Wm. T.....	709	310	70
90,470	Soule, L. H.....	181	98	16	308,442 Stillwell, Henry M., and McNab, John C.....	457	333	37
414,782	Southard, Frank E.....	941	426	77	186,379 Stineman, Wm. H., and Holloway, Charles T.....	269	86	23
420,600	Southard, Frank E., and Klausner, Arthur E.....	1022	378	83	261,966 Stock, Hosea T.....	556	255	47
420,610	Southard, Frank E., and Klausner, Arthur E.....	1022	378	83	172,200 Stockdale, Cornelius F., Reamer, Hiram J., and Hurley, Madison M.....	904	363	80
445,303	Southard, Frank.....	580	309	48	319,027 Stoliker, Joseph.....	857	393	67
11,446	Souther, George.....	807	361	79	321,219 Stone, Geo. W., and Hamelright, Henry H.....	901	409	72
338,312	Spadone, Amadee.....	848	451	90	164,946 Stone, Joseph M.....	832	443	89
19,172	Spalding, A. G., & Brothers.....	799	799	67	381,435 Stone, Thomas H., and Corser, Harveyington.....	126	72	194
19,173	Spalding, A. G., & Brothers.....	799	799	67	263,991 Stoner, Allen M.....	557	255	47
22,754	Spalding, A. G., & Brothers.....	228	228	115	378,631 Stoner, Allen M.....	438	185	36
22,755	Spalding, A. G., & Brothers.....	228	229	115	418,963 Stoner, Allen M.....	388	152	32
408,902	Spaulding, Oliver L., Jr.....	667	233	55	167,627 Story, Joseph M.....	535	201	45
323,966	Spatzler, August W.....	501	257	47	320,722 Stover, Daniel C., and Hance, William A.....	510	213	42
293,377	Spence, Wm., and Thompson, Richard C.....	126	59	12	319,017 Stover, Daniel C., and Hance, William A.....	13	7	2
296,629	Spence, Wm., and Thompson, Richard C.....	332	129	28	418,142 Stover, Daniel C., and Hance, William A.....	90	43	9
387,814	Spencer, Chas. C., and Ribble, Geo. B. M.....	546	205	46	418,142 Stover, Daniel C., and Hance, William A.....	842	448	90
270,013	Spencer, George N.....	319	125	27	299,018 Stowe, Benjamin L., and Schenck, Junius.....	842	448	90
288,507	Spencer, George N.....	500	256	47	421,088 Stowe, Benjamin L.....	854	454	91
386,168	Spencer, Wilber W., and Horace.....	728	247	60	441,820 Stowe, Alex, and Bromley, Joseph E.....	854	454	91
263,98	Sperry, Elmer A., and Vandenburg, Jesse.....	907	364	80	446,924 Stowe, Benjamin L.....	854	454	91
314,351	Spitznass, William.....	510	213	42	453,520 Stowe, Benjamin L.....	854	454	91
91,379	Spofford, Fisher A., and Raffington, Matthew G.....	182	98	16	400,924 Stowe, Benjamin L.....	854	454	91
392,889	Sponsel, Charles W.....	605	232	54	400,925 Stowe, Benjamin L.....	854	454	91
398,465	Sprake, Charles.....	547	205	46	486,620 Stowe, Benjamin L.....	168	101	108
344,059	Spree, L. E. Hugo.....	641	179	52	486,621 Stowe, Benjamin L.....	168	102	108
90,034	Spring, Charles and Andrew.....	284	111	24	301,887 Straight, Clarence H.....	931	421	75
90,601	Spring, Charles and Andrew.....	286	112	24	292,061 Strait, Hiram.....	126	59	12
394,804	Staeber, Gustav.....	440	185	36	421,088 Strang, Lew K.....	853	454	91
205,921	Stafford, George.....	508	212	42	441,820 Straus, Alex, and Bromley, Joseph E.....	1027	381	84
87,596	Stafford, M. B.....	113	54	11	449,502 Straus, Alexander.....	1032	384	85
334,301	Stahl, Harlow C., and Rosebaugh, John C.....	907	412	73	453,520 Straus, Alexander.....	1034	386	85
249,622	Stall, William W., and Howard, James E.....	714	240	59	474,423 Straus, Alexander.....	63	36	98
406,800	Stamp, John G.....	248	154	116	490,459 Straus, Alexander.....	103	120	111
433,829	Stanford, John.....	549	206	46	491,386 Straus, Alexander.....	203	128	112
487,081	Staples, Elia M.....	171	104	108	154,725 Street, Charles B.....	829	443	88
293,536	Staples, John M.....	412	193	34	142,054 Street, Edward A.....	827	441	88

	P.	C.	R.		P.	C.	R.
5,930 (R.) } Street, Edward A.....	827	441	88	22,455 The Yost Manufacturing Company...	206	206	113
142,054 Street, Edward A.....	828	442	88	463,877 Thierry, James.....	1044	391	86
148,258 Street, Edward A.....	828	442	88	364,782 Thiessen, Heinrich.....	367	142	31
156,017 Street, Edward A., and Dodge, Theo. A....	830	443	88	155,270 Thiessen, Henry.....	421	188	34
228,908 Streiff, Peter, and Langmaak, Frederick.....	635	177	52	399,354 Thomas, Amos W.....	1017	375	83
384,650 Stribling, John V.....	928	420	75	399,355 Thomas, Amos W.....	1017	375	83
347,977 Strickland, Thomas J.....	687	282	57	399,356 Thomas, Amos W.....	1017	375	83
451,080 Stroud, Edward M.....	84	41	8	11,155 (R.) } Thomas, Amos W.....	1018	375	83
109,408 Stuart, Reuben, Daney, John C., and Hanchett, Daniel.....	429	182	35	399,357 Thomas, Amos W.....	1018	375	83
298,321 Stuck, George A.....	841	447	99	399,358 Thomas, Amos W.....	1018	376	83
156,240 Stultz, Sidney S.....	867	396	69	399,359 Thomas, Amos W.....	1018	376	83
436,814 Stump, Ira E.....	564	258	47	399,360 Thomas, Amos W.....	1019	376	83
89,700 Sturdy, Geo. J., and Young, Solomon W....	514	207	42	399,361 Thomas, Amos W.....	1019	376	83
475,256 Stutzman, Frank.....	68	38	99	399,362 Thomas, Amos W.....	1019	376	83
479,229 Sulzner, Charles.....	109	62	102	422,548 Thomas, Amos W.....	91	44	9
356,383 Suratt, Ralph M.....	914	414	74	422,549 Thomas, Amos W.....	76	35	8
450,795 Surbridge, Raymond G.....	36	18	4	339,712 Thomas, George W.....	909	412	73
421,008 Surfleet, Francis R.....	76	35	8	410,220 Thomas, John D.....	548	206	46
311,687 Swain, Fremont.....	102	49	10	86,757 Thompson, Abraham D., and Marden			
488,852 Swain, Walter, and Philipson, Wm.....	183	112	110	Jesse, Jr.....	279	110	23
461,289 Swanson, Ludvig.....	396	155	32	45,6604 Thompson, Arthur N.....	674	238	55
92,668 Swanke, Daniel.....	428	182	35	50,797 Thompson, Henry.....	287	112	24
486,687 Swarthout, Albert S.....	169	102	108	314,491 Thompson, James.....	522	221	43
458,370 Sweetland, Frank.....	15	9	94	41,940 Thompson, John B., and Prat, E. L.....	988	361	79
473,930 Sweetland, Frank.....	47	27	97	293,377 Thompson, Richard C., and Spence, Wm.....	126	59	12
474,106 Sweetland, Frank.....	59	34	98	296,639 Thompson, Richard C., and Spence, Wm.....	332	120	28
475,633 Sweetland, Frank.....	73	40	99	474,784 Thompson, Thomas J.....	65	37	98
476,838 Sweetland, Frank.....	82	45	100	447,352 Thompson, William E.....	672	236	55
482,007 Sweetland, Frank.....	131	77	105	461,001 Thompson, William E.....	675	238	56
489,599 Sweetland, Frank.....	187	114	110	496,073 Thompson, William L.....	240	148	115
491,200 Sweetland, Frank.....	201	127	112	514,104 Thomson, Robert W.....	986	361	79
485,868 Sweeting, Thomas H.....	162	98	107	566,635 Thomson, Robert W.....	990	362	80
493,078 Sweett, Charles F.....	477	344	39	478,770 Thorp, Henry H.....	104	59	102
475,828 Swindley Harry J.....	74	40	99	436,844 Thorp, Thomas J.....	78	37	8
417,796 Taft, Edward A.....	852	453	91	495,353 Thorp, Thomas J.....	233	145	114
488,745 Taitte, Annet.....	182	112	110	566,703 Thresh-her, Harry.....	69	32	7
464,837 Takken, Evert.....	1045	392	86	381,763 Thresher, Harry, and Dearlove, Joseph H.....	374	145	31
281,580 Talbot, Frank H., and Brown, Fernando.....	706	288	64	387,700 Thresher, Harry.....	665	231	54
407,623 Talbott, Sylvanus J.....	547	205	46	398,625 Thuenier, Edward.....	8	4	1
444,410 Tannettle, Edward.....	955	432	78	196,943 Thurston, Edward T., and Smith, John.....	64	30	6
105,739 Tarbox, Ephraim.....	269	85	23	483,661 Thurston, Henry W., and Stenersen, Erik.....			
395,523 Taylor, Charles.....	934	423	76	366,531 Thre-her, Harry.....	144	85	106
402,286 Taylor, Charles.....	937	424	76	292,072 Tice, David.....	857	404	71
453,094 Taylor, Frederick G.....	742	262	62	490,240 Tilbery, Scott, and Bendure, William H.....	191	117	110
456,347 Taylor, Frederick G.....	743	262	62	444,258 Tillinghast, Pardon W.....	741	261	62
456,348 Taylor, Frederick G.....	743	262	62	450,951 Tillinghast, Pardon W.....	1033	384	85
466,671 Taylor, Frederick G.....	247	153	116	450,952 Tillinghast, Pardon W.....	1033	385	85
323,085 Taylor, George J.....	133	62	12	473,708 Tillinghast, Pardon W.....	52	30	97
404,123 Taylor, George J.....	175	83	15	477,316 Tillinghast, Pardon W.....	88	40	100
221,125 Taylor, James.....	838	449	86	486,914 Tillinghast, Pardon W.....	170	103	108
231,736 Taylor, James.....	839	449	86	486,915 Tillinghast, Pardon W.....	170	103	108
325,024 Taylor, James.....	904	410	72	497,971 Tillinghast, Pardon W.....	259	159	117
309,109 Taylor, Sydney W.....	339	131	28	341,523 Timken, Henry.....	910	412	73
198,707 Taylor, Thomas.....	567	304	48	319,351 Toennies, Charles.....	511	213	42
46,597 Taylor, William B. S.....	813	436	87	425,471 Toense, Carl G.....	76	36	8
55,740 Taylor, William B. S.....	814	437	87	1,440 Tolles, Elisha.....	855	393	67
7,137 (R.) } Taylor, William B. S.....	814	437	87	229,252 Tolman, Edward F., Howland, Arthur H., and Hill, Edward K.....			
55,740 Taylor, William B. S.....	814	437	87	486,915 Tompkins, Ira.....	553	254	46
144,163 Taylor, William B. S.....	828	442	88	465,546 Toney, George W., and Livingston, Murray V.....	962	433	79
482,658 Taylor, William W.....	134	80	105	472,411 Toney, Oliver.....			
468,371 Teate, Thomas A.....	16	9	94	499,859 Toomay, Samuel.....	44	25	97
225,771 Teese, Robert W.....	191	106	17	499,860 Toomey, Samuel.....	278	168	119
433,053 Teeter, Abe L.....	38	19	4	499,861 Tooplift, John A., and Ely, George H.....	278	168	119
456,667 Teeter, Abe L.....	596	229	87	308,225 Toquet, Benjamin L.....	52	20	5
292,708 Temmen, John C.....	329	128	28	455,837 Torkelson, Reinhard T.....	77	36	8
435,466 Terrot, Charles.....	734	250	61	366,279 Torkelson, Reinhard T.....	687	282	57
416,199 Terry, Ary P.....	942	426	77	379,228 Torkelson, Reinhard T., and Johnson, Iver.....			
453,251 Terry, Ary P.....	959	434	78	379,228 Torkelson, Reinhard T.....	702	271	58
455,932 Terski, Leopold.....	550	207	46	379,228 Torkelson, Reinhard T.....	702	271	58
308,331 Teter, William L.....	843	448	90	391,210 Torkelson, Reinhard T.....	703	273	50
497,290 Thanner, Leonhard.....	254	150	116	391,212 Torkelson, Reinhard T.....	680	284	57
312,920 Thayer, Charles G.....	656	226	54	426,402 Torkelson, Reinhard T.....	19	9	2
396,782 Thayer, Horace N.....	934	423	76	428,577 Torkelson, Reinhard T.....	595	298	40
396,783 Thayer, Horace N.....	935	423	76	496,803 Torkelson, Reinhard T.....	249	154	116
21,201 The Coventry Machinist Company.....	73	73	100	61,282 Torrey, E. S.....	688	301	79
19,220 The Eagle Bicycle Manufacturing Co.....	800	800	67	66,518 Torrey, William A., and Perry, Edward L.....	815	438	87
22,960 The Eagle Bicycle Manufacturing Co.....	250	250	117	208,291 Towle, Caleb E.....	807	407	72
22,223 The Henryless Company.....	180	181	110	418,829 Towle, George C.....	747	204	62
22,661 The Kenyon Bicycle Manufacturing Company.....	219	219	114	312,406 Towle, George W., Jr.....	909	359	92
20,574 The McIntosh-Huntington Company.....	804	804	67	302,120 Townsend, V. B.....	518	219	43
21,873 The McIntosh-Huntington Company.....	148	149	107	432,007 Tozer, James H., and William.....	930	430	78
6,942 The Pope Manufacturing Company.....	793	793	66	230,607 Tragardh, Rudolph.....	121	57	11
21,066 The Quadrant Cycle Company.....	61	61	100	264,374 Tragardh, Rudolph.....	122	57	11
19,881 The Raleigh Cycle Company.....	802	802	67	87,769 Trageset, John, and Gardner, Franklin B.....	180	97	10

	<i>P.</i>	<i>C.</i>	<i>R.</i>	<i>P.</i>	<i>C.</i>	<i>R.</i>
478,772 Traut, Justus A.....	104	59	102	310,548 Von Malkowsky, Robert.	128	60 12
229,562 Trautmann, Charles M.....	65	30	7	480,738 Von Oliver, Julius.....	120	69 104
232,620 Trautmann, Charles M.....	114	54	11	301,307 Von Palstring, Franz B.	335	130 28
248,531 Trautmann, Charles M.....	217	94	19	10,624 (R.) \ Von Palstring, Franz B.....	335	130 28
194,681 Traynor, Patrick, and Higgins, James.....	187	99	17	301,307 (R.) \ Von Palstring, Franz B.....	335	130 28
452,782 Trebert, Henry L. F.....	46	23	5	366,705 Vorck, Frederick.....	787	312 66
265,996 Trekell, Benjamin F.....	317	124	27	480,840 Vorkeller, August F.....	188	116 110
482,856 Tremblay, Alfred.....	130	80	105	450,712 Voss, Frederick.....	112	53 10
480,509 Tremper, Eugene, and Lynch, William.....	120	69	103	309,667 Vossmer, Frederick W.....	339	131 28
366,045 Trigwell, James R.....	661	229	54	225,310 Vreeland, Aaron.....	216	94 19
366,046 Trigwell, James R.....	699	269	58	243,476 Vreeland, Aaron.....	422	188 34
568,300 Trigwell, James R.....	661	230	54	205,722 Vreeland, Aaron.....	194	102 17
230,838 Tripler, Charles E., and Roff, Wm. H.....	597	222	50	284,990 Vreeland, Aaron.....	886	403 70
232,783 Tripler, Charles E., and Roff, Wm. H.....	117	56	11	327,125 Vreeland, Aaron.....	437	184 36
300,260 Troy, Daniel S.....	621	172	51	92,915 Vreeland, Simon.....	860	394 68
317,803 Troy, Daniel S.....	622	172	51	5,237 (R.) \ Vreeland, Simon.....	861	394 68
455,027 True, Richard S.....	492	353	40	52,915		
11,249 (R.) \ True, Richard S.....	92	51	101	136,567 Vreeland, Simon.....	864	395 68
455,027 True, Richard S.....	232	144	114	340,643 Wacker, Andrew.....	543	203 45
45,540 Trusty, Joseph.....	958	433	78	452,810 Wagner, Curt.....	136	79 105
329,102 Tryon, Joseph M.....	105	78	15	408,850 Wait, Wesley.....	22	12 95
497,905 Tucker, Frank W.....	259	159	117	345,405 Waite, James N.....	659	228 54
306,673 Tufts, Elmer E.....	689	284	57	483,273 Wakefield, William O.....	139	82 105
158,758 Turner, Benjamin G.....	867	397	69	183,876 Wakeman, Harwood.....	834	444 89
192,545 Turner, Edouard H.....	298	116	25	188,446 Wakeman, Harwood.....	835	445 89
454,092 Turner, Joseph A.....	1035	386	85	200,493 Wakeman, Harwood.....	835	445 89
355,359 Turner, Joseph A.....	1011	371	82	203,094 Wakeman, Harwood.....	836	445 89
458,861 Turner, William B., and Asbury, John.....	478	345	39	213,363 Wakeman, Harwood.....	837	445 89
478,724 Tutte, John H., and Cable, Frank D.....	103	58	102	223,262 Wakeman, Harwood.....	838	446 89
230,176 Tutte, John W. T., Collins, Henry C., and				284,781 Waldo, Charles F.....	323	126 28
Collins, Daniel H.....				61,682 Walker, George D., and Smith, Chas. H.....	57	28 6
264,798 Tyler, Abel D.....	693	265	57	384,473 Walker, John, and Salter, George.....	472	342 38
94,927 Tyler, Charles M.....	789	313	66	266,370 Walker, William J.....	841	447 90
189,588 Uebel, Conrad, and Will, Henry.....	297	110	25	458,720 Wall, Robert C.....	776	301 65
219,551 Uebel, Conrad, and Will, Henry.....	65	30	7	407,729 Wall, Robert C.....	12	7 94
319,040 Ueland, Andrew A.....	719	243	60	249,278 Wallace, Albert E.....	580	290 48
473,034 Ulbricht, Emil.....	47	27	97	280,421 Wallace, Albert E.....	581	291 48
160,487 Umstead, William O.....	406	192	33	284,782 Wallace, Albert E.....	715	240 60
17,608 Union Cycle Manufacturing Company.....	796	796	67	299,883 Wallace, Albert E.....	715	241 60
22,453 Union Cycle Manufacturing Company.....	205	205	112	310,540 Wallace, Albert E., and Pratt, Charles E.....	716	241 60
424,084 Unwin, Howard.....	580	398	49	312,411 Wallace, Albert E.....	341	132 29
204,626 Unzicker, Otto.....	299	116	25	312,732 Wallace, Albert E., and Knous, John.....	656	226 54
229,500 Unzicker, Otto.....	101	101	17	313,083 Wallace, Albert E., and Knous, John.....	572	305 48
242,490 Unzicker, Otto.....	448	329	36	314,633 Wallace, Albert E.....	718	242 60
257,415 Unzicker, Otto.....	315	123	27	318,149 Wallace, Albert E.....	684	280 56
355,028 Unzicker, Otto.....	362	140	30	334,829 Wallace, Albert E.....	997	412 73
393,044 Unzicker, Otto.....	147	69	14	475,780 Walpole, Wm. R., and King, Wm. E.....	74	40 99
397,099 Unzicker, Otto.....	71	33	7	268,058 Walrath, Jesse.....	880	401 70
209,367 Upton, William H.....	539	201	45	255,357 Walsh, Maurice J.....	839	446 89
245,418 Urch, David.....	521	220	43	469,192 Walsh, Patrick R.....	24	13 95
251,077 Urch, David.....	522	221	43	306,182 Walter, Henry.....	783	279 66
249,122 Uster, John.....	538	202	45	444,642 Walters, John F., Sachtleben, William L.,		
472,005 Vale, Samuel.....	42	24	96	and Allen, Thomas G., Jr.....	778	302 65
222,611 Valentine, Waldo W.....	873	395	69	269,490 Walz, Samuel H.....	557	255 47
347,845 Valentine, Waldo W.....	911	413	73	68,819 Wanner, Anthony.....	291	114 25
308,881 Valiquet, Louis P.....	273	87	23	88,683 Ward, Thomas W.....	632	176 52
313,466 Valiquet, Louis P.....	342	133	29	437,269 Wardman, Palmer, and Hollister, Win.....	631	175 52
357,249 Valiquet, Louis P.....	303	141	30	320,100 Ware, Theodore E.....	764	286 64
88,238 Van Anden, William.....	713	240	59	334,495 Ware, Theodore E.....	764	287 64
477,553 Van Bibber, Andrew.....	91	51	101	19,953 Warman & Hazlewood.....	803	803 67
293,982 Vandenburg, Jesse, and Sperry, Elmer A.....	97	364	80	282,938 Warner, Charles H.....	124	58 12
88,347 Van Der Waag, Johannes A.....	257	89	22	283,306 Warner, Charles H.....	124	58 12
6,250 (R.) \ Van Der Waag, Johannes A.....	258	90	22	288,525 Warner, Jasper P.....	890	405 71
88,347				182,045 Warpenberg, Wm.....	497	192 33
261,411 Van Meter, Joseph E., and Hesser, Benj. F.....	434	183	35	491,620 Warren, Willard A.....	207	120 112
345,476 Varley, John J., and Barrett, Henry.....	1005	370	81	499,810 Warrick, John.....	277	168 119
239,629 Veeder, Curtis H.....	447	329	36	309,325 Warwick, George T.....	339	131 28
244,693 Veeder, Curtis H.....	448	330	36	315,004 Warwick, George T.....	1000	397 81
252,280 Veeder, Curtis H.....	448	330	36	322,221 Warwick, George T.....	132	62 12
312,497 Veeder, Curtis H. and John I.....	717	241	60	328,987 Warwick, George T.....	573	305 48
371,234 Veeder, Curtis H.....	701	270	58	362,407 Warwick, George T.....	142	67 13
372,994 Veeder, Curtis H.....	469	340	38	384,945 Warwick, George T.....	3	2 1
420,421 Veeder, Curtis H.....	482	347	39	384,946 Warwick, George T.....	144	67 13
476,670 Veitch, Richard M., and Mitchell, Claudioius H.....	80	44	100	386,097 Warwick, George T.....	664	231 54
246,988 Venner, Orange H.....	120	56	11	397,495 Warwick, George T.....	578	308 48
476,433 Vetterelin, John.....	79	43	100	399,453 Warwick, George T.....	1020	376 83
228,496 Vick, Alfred.....	509	213	42	399,454 Warwick, George T.....	148	69 14
346,078 Vick, Alfred.....	513	214	42	399,456 Warwick, George T.....	594	297 49
455,673 Vincent, David P.....	39	20	4	412,216 Warwick, George T.....	12	7 2
479,177 Vogel, Charles.....	107	61	100	416,606 Warwick, George T.....	784	279 66
477,160 Vogt, Theodore G. P.....	87	48	100	416,607 Warwick, George T.....	481	346 39
418,253 Volk, George.....	943	427	77	424,941 Warwick, George T.....	16	8 2
97,837 Volk, William.....	291	113	25	427,488 Warwick, George T.....	484	347 39

P.	C.	R.	P.	C.	R.
429,587 Warwick, George T.....	485	348	39	425,612 Whiteley, Nathan, Hanson, Albert, and	
434,615 Warwick, George T.....	110	52	10	Johnson, Thomas.....	946 428 77
438,124 Warwick, George T.....	25	13	3	Whiteman, Abram V.....	245 153 116
441,521 Warwick, George T.....	1027	381	84	250,316 Whiting, William A.....	121 56 11
467,695 Warwick, George T.....	10	6	94	416,699 Whitman, Louis F.....	481 346 39
289,733 Warwick, Thomas.....	998	305	80	226,578 Whitmore, George E.....	301 118 26
316,702 Warwick, Thomas.....	460	335	37	356,382 Whitmore, George E.....	362 141 30
329,517 Warwick, Thomas.....	349	134	29	379,841 Whitmore, George E.....	925 418 75
362,472 Warwick, Thomas.....	1011	371	82	345,351 Whitton, Lucius E.....	1007 370 81
492,754 Waterman Stephen, and Luther, Chas. H., Jr.....	212	132	112	447,993 Whittemore, Louis D., Jr.....	1030 383 84
445,014 Waterson, Henry.....	712	276	59	20,883 Whittier, David L.....	806 806 67
417,655 Watkins, Charles F.....	668	233	55	29,884 Whittier, David L.....	806 806 67
448,707 Watkins, Charles F.....	673	237	55	254,822 Wiard, George.....	122 57 11
482,708 Watkins, Gardner A.....	135	79	105	256,936 Wicksted, Charles.....	745 263 62
410,681 Watkins, James L.....	11	6	2	488,464 Wietschb, Albin.....	180 110 110
363,189 Watson, Richard.....	366	142	39	441,545 Wietz, George J., and Flickinger, Wm. F.....	549 206 46
471,921 Watson, Thomas A.....	41	23	66	358,178 Wiggins, David.....	363 141 39
203,668 Watt, Sern P.....	408	102	33	376,402 Wilder, Francis M., and Benjamin, George H.....	
441,728 Watts, Samuel.....	669	234	55	20,883 Whittier, David L.....	806 806 67
71,561 Way, Charles A.....	179	97	16	29,884 Whittier, David L.....	806 806 67
71,562 Way, Charles A.....	179	97	16	64,820 Wilkison, John G.....	426 181 35
153,207 Weaver, Theophilus.....	866	306	68	189,588 Will, Henry, and Uebele, Conrad.....	297 116 25
333,268 Weber, Caspar.....	202	104	18	210,551 Will, Henry, and Uebele, Conrad.....	65 30 7
321,162 Weber, Theodore R. A., Henning, Carl G. E., and Frommelt, Alfred E.....	343	133	29	92,412 Willcox, Albert O., Jr.....	51 28 6
493,002 Webster, Harold A.....	214	134	113	498,373 Williams, George R.....	262 160 117
254,181 Webster, Maria.....	272	86	23	300,293 Williams, Samuel T.....	892 405 71
109,774 Webster, William, Masse, Jacques, and Bodel, Louis G.....	215	93	19	305,727 Williams, Samuel T.....	894 406 72
109,083 Wedderkinch, Carl O., and Starkweather, Archibald.....	519	220	43	305,760 Williams, Samuel T.....	895 407 72
391,100 Weeks, Elias.....	439	185	36	305,771 Williams, Samuel T.....	895 407 72
331,173 Weidman, George W.....	165	78	15	305,772 Williams, Samuel T.....	895 407 72
469,760 Weinidel, Charles.....	30	18	95	306,450 Williams, Samuel T.....	896 407 72
332,027 Weinstock, Henry B.....	906	411	73	325,302 Williams, Samuel T.....	905 410 73
460,243 Weir, Thomas.....	1042	390	86	325,893 Williams, Samuel T.....	905 411 73
134,176 Weishaar, Ignatz.....	404	101	33	337,223 Williams, Samuel T.....	908 412 73
494,611 Welch, Charles K.....	225	141	114	339,082 Williams, Samuel T.....	909 412 73
437,826 Welch, Roy Wayne.....	953	431	78	344,322 Williams, Thomas B.....	1004 368 81
481,681 Wellstein, Joseph, and Maxfield, Morgan E.....	128	74	104	349,773 Williams, Thomas B.....	1010 371 82
472,282 Werner, Francis J.....	43	25	6	111,597 Williams, William L.....	595 211 41
439,334 Wesson, Daniel B.....	1026	380	84	364,975 Williamson, Catherine A.....	468 339 38
407,266 West, Derrick S.....	939	425	76	21,059 Willis, Ernest J.....	984 954 93
454,315 West, Derrick S.....	660	434	79	25,600 Willis, Ernest J.....	495 355 40
418,004 West, Harley E.....	943	427	77	348,600 Willits, Warren J.....	557 255 47
483,703 West, Harley E.....	144	86	106	305,772 Willoughby, Frank S., and Horsfield, Thomas.....	
463,181 West, Jonathan B.....	1044	391	86	89,822 Wilmarth Seth.....	283 111 24
267,473 Westinghouse, George, Jr.....	839	446	89	460,494 Wilmot, Franklin A.....	25 14 95
481,608 Weston, Frank C.....	128	74	104	86,960 Wilson, Benjamin F.....	214 93 19
357,110 Weston, Irving A., and Smith, Willard A.....	242	163	21	89,660 Wilson, Harriett, D. T.....	173 105 109
389,355 Weston, Irving A., and Smith, Willard A.....	926	425	76	348,605 Wilson, Joseph L.....	451 331 36
439,915 Weston, Irving A.....	391	425	117	348,605 Wilson, Joseph L.....	911 413 73
85,759 Weston, James W.....	258	153	32	349,569 Wilson, Stephen.....	43 21 4
92,132 Westphal, Frederick.....	428	90	22	490,465 Wilson, Stephen.....	84 47 100
476,011 Westwood, Frederick, and Butler, William H.....	83	182	35	359,045 Wilson, Stephen.....	193 120 111
486,146 Westwood, Frederick, and Butler, William H.....	164	46	100	359,045 Wilson, William J. (See Errata).....	915 415 74
467,761 Whaler, Clarence V. W.....	13	99	107	353,604 Winey, Elijah L.....	798 798 67
472,837 Wheatley, Thomas.....	47	8	94	235,925 Winslow, Gorham N.....	140 65 13
177,174 Wheeler, Earl A.....	296	27	97	486,456 Wintersteen, Jacob L., and Frazee, Fremont.....	118 56 11
458,668 Wheeler, William.....	692	115	25	89,660 Wilmot, Alexander.....	166 100 108
399,733 Whelock, Luke.....	705	285	57	235,925 Winton, Alexander.....	675 239 56
498,598 Whipple, Clayton J.....	263	161	117	235,925 Winton, Alexander.....	126 73 104
467,306 Whipple, Jerome.....	9	5	94	491,393 Witt, John C.....	201 170 119
489,045 Whitaker, Joseph F.....	187	115	110	482,737 Witt, John C.....	593 210 41
158,551 Whitcomb, William W.....	665	358	91	111,767 Wittington, George.....	22 11 2
310,857 White, Albert M.....	1000	366	51	235,925 Witt, Julius.....	863 395 68
317,957 White, Albert M.....	1002	367	81	235,925 Wittberg, Charles.....	203 104 18
259,444 White, Frederick.....	316	123	27	432,920 Wittleg, Fred E.....	306 110 26
336,068 White, Frederick.....	351	135	29	87,999 Wittry, Calvin.....	770 310 64
414,660 White, Frederick.....	385	151	32	288,537 Woard, Charles V.....	52 27 6
437,827 White, Frederick.....	79	38	8	475,226 Wohlgemuth, Frederick.....	125 58 12
88,930 White, John J.....	267	85	23	493,419 Wolcott, Marcus R.....	68 58 99
258,333 White, Joseph.....	450	330	36	349,920 Wood, Edward L.....	849 452 90
269,609 White, Joseph.....	318	124	27	349,920 Wood, Ellery W., and Burnap, Charles E.....	90 47 9
300,541 White, Joseph.....	585	202	49	299,609 Wood, John B.....	179 110 100
89,102 White, Thomas E. M.....	604	314	50	348,587 Womser, Mileden.....	774 300 65
66,111 White, Thomas R., and Bedford, Wm. G.....	815	458	57	336,277 Wood, John, Jr., and Philbrick, Andrew J.....	880 282 57
341,526 Whitehead, Benjamin S.....	138	64	13	368,364 Wood, Edward L.....	
88,426 Whitehead, Edward.....	281	110	24	349,920 Wood, Ellery W., and Burnap, Charles E.....	
194,080 Whitehead, Edward.....	227	157	20	488,230 Wood, Isaac.....	
260,840 Whitehead, James, and Candler, Claude H.....	218	95	19	366,277 Wood, John, Jr., and Philbrick, Andrew J.....	

	<i>P.</i>	<i>C.</i>	<i>R.</i>		<i>P.</i>	<i>C.</i>	<i>R.</i>
432,848 Wood, John.....	950	430	78	481,323 Wyman, Adolphus F.....	124	72	104
85,501 Wood, Sylvester A.....	531	200	44	106,529 Wyndham, Charles.....	62	30	6
376,829 Wood, William P.....	984	309	79	494,947 Wynn, Calvin.....	228	143	114
43,651 Wood, George B., and A. B.....	857	393	67	493,201 Xander, John G.....	216	134	113
33,809 Woodard, Seth D.....	988	361	79	452,001 Yagn, Nicholas.....	1034	385	85
266,945 Woodham, Augustus F.....	539	202	45	394,429 Yingst, Cyrus.....	209	106	18
474,051 Woodhead, Richard M., and Anglois, Paul.....	58	34	98	399,110 Yingst, Cyrus.....	419	195	34
293,837 Woodruff, John W.....	436	184	35	426,518 Yingst, Cyrus.....	210	107	18
291,457 Woodward, Alonzo B.....	887	493	71	481,883 Yost, Abraham and Fernando.....	130	75	105
374,919 Woodward, Charles E. W.....	759	327	63	310,858 Yost, Joseph L.....	128	60	12
401,237 Woodward, Charles E. W.....	8	4	1	312,692 Yost, Joseph L.....	1001	367	81
428,999 Woodward, Charles E. W., and Overman, Charles R.....	110	52	10	334,325 Yost, Joseph L.....	156	63	13
443,735 Woodward, Charles E. W.....	1029	382	84	10,864 (R.) Yost, Joseph L.....	137	64	13
404,767 Woodward, Charles E. W.....	1044	392	86	334,325 Yost, Joseph L.....	210	107	18
406,548 Woodward, Charles E. W.....	1	93		366,287 Yost, Joseph L., and McCune, Joseph B.....	661	229	54
477,397 Woodward, Charles E. W.....	89	50	101	366,288 Yost, Joseph L., and McCune, Joseph B.....	726	246	60
478,776 Woodward, Charles E. W.....	104	59	102	367,883 Yost, Joseph L., and McCune, Joseph B.....	661	230	54
481,340 Woodward, Charles E. W.....	24	72	104	420,756 Yost, Joseph L., and Moore, Charles J.....	15	8	2
483,373 Woodward, Charles E. W.....	140	82	105	424,994 Yost, Joseph L., and McCune, Joseph B.....	17	8	2
446,910 Woolson, Egbert.....	1030	383	84	448,469 Yost, Joseph L., and Moore, Charles J.....	490	351	40
102,209 Work, Alanson.....	966	358	92	431,927 Young, John S.....	949	430	78
246,650 Work, Charles L.....	877	399	69	95,753 Young, McClintock.....	60	29	6
238,545 Work, Charles L.....	311	121	26	96,648 Young, McClintock.....	677	224	56
314,160 Work, Charles L.....	129	60	12	89,700 Young, Solomon W., and Sturdy, Geo. J.....	514	207	42
442,345 Worms, Eugene, and Zwierzchowski, Alexander S.....	391	153	32	426,631 Young, William F.....	948	429	77
451,588 Worms, Eugene, and Zwierzchowski, Alexander S.....	150	70	14	471,932 Youngs, Fred E.....	41	23	96
444,868 Worth, William O.....	82	40	8	302,462 Zacharias, Charles R.....	774	300	65
447,395 Worth, William O.....	601	285	57	476,857 Zalsman, John F.....	82	45	100
93,030 Wortmann, Simon.....	225	156	20	352,503 Zanger, Theodore.....	359	140	30
479,909 Wright, David D., anh Berry, Wm. R.....	116	66	103	233,903 Zeller, Thomas B.....	192	101	17
478,674 Wright, John R.....	102	58	102	339,611 Zieger, William.....	909	412	73
425,293 Wright, Rufus.....	853	454	91	406,613 Ziegler, John G., and Meigs, Geo. W.....	3	2	93
499,035 Wright, Rufus, and Morgan, Fred. W.....	188	116	110	474,327 Ziegler, John G., and Meigs, Geo. W.....	61	35	98
496,321 Wright, Rufus, and Morgan, Fred. W.....	241	149	115	431,308 Ziegler, Oscar J., and Hance, William A.....	652	198	53
496,789 Wright, Rufus, and Morgan, Frd. W.....	247	154	116	471,249 Zillgitt, Gustav.....	35	20	96
299,897 Wright, Wilber S.....	999	365	81	445,618 Zimer, Frederick W.....	671	235	55
480,112 Wright, William A.....	185	113	110	478,184 Zimmer, Cyrus W.....	98	55	101
499,694 Wright, William A.....	276	167	118	392,252 Zimmermann, George J.....	576	307	48
311,862 Wlinsch, Christian.....	541	203	45	366,766 Zimmermann, George J.....	577	307	48
355,672 Wuterich, William F.....	725	245	60	352,076 Zimmermann, John C.....	242	163	21
261,290 Wyke, Thomas H., and Bancroft, James.....	516	207	42	208,876 Zoebi, John A.....	188	100	17
				442,345 Zwierzchowski, Alex S., and Worms, Eugene.....	391	153	32
				451,588 Zwierzchowski, Alex S., and Worms, Eugene.....	150	70	14

## Number, Name and Date of Patents,

With List of References by Number, Name and Date Cited in the Examination of Applications.

### Safeties, with Chain, Foot Propelled.

		P. C.	P. C.
360,101 Latta, Emmitt G., March 29, 1887, References—3,564 of 1879. English. 349 of 1884. " 12,084 of 1884. " Latta, 337,271. March 2, 1886. Pressey, 234,722. Nov. 23, 1880. Morse, 92,991. July 27, 1869. Klahr, 285,821. Oct. 2, 1883. McClure, 331,518. Dec. 1, 1885. Jannus, 331,199. Nov. 24, 1885. Laughbaugh, 86,235. Jan. 26, 1869. 15,590 of 1884. English. 15,618 of 1884. " 8,101 of 1884. "	1	1	391,882 Chapman, George J., Oct. 30, 1888, . . . . . No references.
370,450 Collicutt, George M., Sept. 27, 1887, References—Crane, 258,559. May 30, 1882. Leddell, 309,498. Oct. 14, 1884. McMurray, 351,118. Oct. 19, 1886. Mercer, 354,337. Dec. 14, 1886. Dutton, 247,809. Oct. 4, 1881.	1	1	392,523 Owen, *Herbert S., Nov. 6, 1888, References—Aland, 305,651. Sept. 23, 1884. 12,901 of 1886. English. 1,559 of 1887. " 4,906 of 1885. " 13,782 of 1886. "
377,610 Goodsell, Charles H., Feb. 7, 1888, References—Hanchett et al., 109,408. Nov. 22, 1870. Gunn, 233,671. Oct. 26, 1880. Edwards, 256,303. April 11, 1882. Soule, 90,470. May 25, 1869.	2	1	392,973 Smith, William E., Nov. 13, 1888, References—Lawson, 90,563. May 25, 1869. Morse, 92,991. July 27, 1869. Latta, 360,101. March 29, 1887. 270 of 1885. English. 10,057 of 1885. " 5,738 of 1886. " 1,613 of 1885. " 12,586 of 1886. " 15 of 1885. " 8,049 of 1886. " Wallace, 299,883. June 13, 1884.
378,253 Latta, Emmitt G., Feb. 21, 1888, References—Laubach, 86,235. Jan. 26, 1869. Rudling & Coffin, 319,130. June 2, 1885. Thresher, 366,703. July 19, 1887. 4,906 of 1885. English. Lorenz, 298,217. May 6, 1884. Hosea, 228,996. June 22, 1880. Mercer, 335,337. Dec. 14, 1886.	2	1	395,147 Jeffery, Thomas B., Dec. 25, 1888, References—Lorenz, 298,217. May 6, 1884. Harrington, 359,863. March 22, 1887. 37,804 of 1886. German. 3,688 of 1884. English.
384,150 Goodsell, Charles H., June 5, 1888, References—Goodsell, 377,610. Feb. 7, 1888. Rice, 348,691. Sep. 7, 1886. 299 of 1888. English.	2	1	398,158 Jeffery, Thomas B., Feb. 19, 1889, References—1,559 of 1887. English. 3,294 of 1886. "
384,945 Warwick, George T., June 19, 1888, References—911 of 1881. English. 5,205 of 1879. " Sheffield, 265,987. Oct. 17, 1882. Perkins, 290,703. Dec. 25, 1883. 13,585 of 1884. English. 1,608 of 1879. " 4,964 of 1880. " 4,309 of 1882. " 5,882 of 1882. " Gardner, 113,867. Aug. 18, 1871. Hemmrich, 254,970. March 14, 1882. 5,397 of 1882. English. 13,986 of 1886. "	3	2	398,195 Thuemler, Edward, Feb. 19, 1889, References—Elliott, 379,270. March 13, 1888. 399,455 Warwick, George T., March 12, 1889, . . . . . References—Dutrow, 277,246. May 8, 1883. Kempster, 305,198. Sept. 16, 1884. Flack, 167,517. Sept. 7, 1875.
385,370 Overman, Albert H., and Hadley, Charles F., July 3, 1888, . . . . . References—7,670 of 1884. English. 3,890 of 1885. "	4	2	401,237 Woodward, Charles E. W., April 9, 1889, . . . . . References—1,589 of 1887. English. 13,782 of 1886. " 10,239 of 1887. " 972 of 1881. "
387,979 Latta, Emmitt G., Aug. 14, 1888, References—Lallement (R), 7,972. Nov. 27, 1877. Marble, 328,499. Oct. 20, 1885.	4	2	401,295 Norton, Malcolm A., April 9, 1889, References—Buell, 90,723. June 1, 1869. Harrington, 359,863. March 22, 1887.
388,903 O'Brien, Thomas, Sept. 4, 1888, References—Thresher, 366,703. July 19, 1887. Thieszen, 364,782. June 14, 1887.	5	2	404,693 Easthope, Alfred, June 4, 1889, . . . . . References—12,901 of 1886. English. 972 of 1881. " 2,164 of 1879. "
389,200 Clegg, Wesley, Sept. 11, 1888 . . . . . No references.	5	3	406,445 Jeffery, Thomas B., July 9, 1889, References—Ellis & Norman, 305,061. Sept. 16, 1884. Gowday, 300,359. June 17, 1884. Sherrell, 87,713. March 9, 1869. 2,813 of 1885. English. 9,045 of 1885. " Maltby, 123,571. Feb. 13, 1877. Tryon, 329,102. Oct. 27, 1885. McGann, 230,428. July 27, 1880. Latta, 360,101. March 29, 1887. Sertell, 87,713. March 9, 1869.

P.	C.	P.	C.
Barr, 30,192. Oct. 2, 1860. 14,529 of 1886. English. 1,559 of 1887. " 13,782 of 1886. " 12,901 of 1886. " 3,312 of 1883. " Cole, 373,516. Nov. 22, 1887. Hitchcock, 181,439. Aug. 22, 1876. Lawson, 90,563. May 25, 1869. Marble, 328,499. Oct. 20, 1885. 10,610 of 1885. English. 972 of 1881. "		424,870 Fay, Stillman M., April 1, 1890, . . . . . References—Clegg, 389,200. Sept. 11, 1888. Jeffery, 395,147. Dec. 25, 1888. Jeffery, 406,445. July 9, 1889. 16,064 of 1886. English. 12,899 of 1887. " 13,921 of 1877. "	15 8
406,581 Hanson, Olaus, and Fyrberg, Andrew, July 9, 1889, . . . . . No references.	10 6	424,941 Warwick, George T., April 1, 1890, . . . . . References—Duryea, 402,313. April 30, 1889. 4,881 of 1888. English. 1,792 of 1887. " 9,256 of 1884. "	16 8
406,661 Mohrig, Edwin, July 9, 1889, . . . . . References—Latta, 360,101. March 29, 1887. 1,559 of 1887. English. 12,901 of 1886. "	10 6	424,994 McCune, Joseph B., and Yost, Joseph L., April 8, 1890, . . . . . References—3,564 of 1879. English.	17 8
407,930 Hill, Louis A., July 30, 1889, . . . . . References—Buell, 99,723. Jan. 1, 1869. Pop, 379,907. March 22, 1888. Harrington, 359,863. March 22, 1887. Warwick, 399,454. March 12, 1889.	11 6	425,017 Barrow, Louis., and Guest, Charles H., April 8, 1890, . . . . . References—16,723 of 1887. English. 13,043 of 1888. "	17 9
410,681 Watkins, James L., Sept. 10, 1889, . . . . . References—Unzicker, 242,490. June 7, 1881. 1,399 of 1888. English.	11 6	425,390 Rice, Charles D., April 8, 1890, . . . . . References—2,140 of 1883. English.	18 9
410,751 Davis, George H., Sept. 10, 1889, . . . . . References—10,610 of 1885. English. 4,983 of 1883. " 349 of 1884. " 12,582 of 1887. "	11 6	426,191 Lloyd, Walter J., and Priest, William, April 22, 1890, . . . . . References—O'Brien, 413,415. Oct. 22, 1880. Norton, 401,295. April 9, 1889. Owen, 398,745. Feb. 26, 1889. 13,921 of 1887. English.	19 9
412,216 Warwick, George T., Oct. 1, 1889, . . . . . References—Wyndham, 106,529. Aug. 16, 1870. Morgan, 335,297. Feb. 2, 1886.	12 7	426,402 Torkelson, Reinhard T., April 22, 1890, . . . . . References—6,767 of 1884. English. 1,613 of 1885. " 16,723 of 1887. " 12,586 of 1886. " 13,782 of 1886. "	19 9
413,414 O'Brien, Thomas, Oct. 22, 1889, . . . . . No references.	13 7	426,670 Keating, Robert M., April 29, 1890, . . . . . References—Driscoll, 232,601. Sept. 28, 1880. Smith, 268,437. Dec. 5, 1882. 16,115 of 1887. English. 12,999 of 1887. " Parker, 361,233. April 12, 1887. Marin, 339,446. April 6, 1886. Jeffery, 335,590. Feb. 9, 1886. Smith, 302,973. Nov. 13, 1888. Warwick, 412,216. Oct. 1, 1889. Latta, 387,979. Aug. 14, 1888. Smith, 301,490. Oct. 23, 1888. Jeffery, 383,131. May 22, 1888. Keating, 420,805. Feb. 4, 1890. 190 of 1879. English. 12,277 of 1884. " 10,273 of 1884. " Jeffery, 411,035. Sept. 17, 1889. Norton, 401,295. April 9, 1889.	20 10
420,059 Hanson, Olaus, and Lobben, Peder, Jan. 28, 1890, . . . . . References—Lorenz, 298,217. May 6, 1884. Humber, 352,090. Nov. 2, 1886. Lawson, 345,851. July 20, 1886. Latta, 377,204. Jan. 31, 1888.	14 7	426,855 Reed, Willard S., April 29, 1890, . . . . . References—Jannus, 331,199. Nov. 24, 1885.	20 10
420,145 Davenport, Charles R. Jan. 28, 1890, . . . . . References—1,098 of 1888. English.	14 8	427,048 Clegg, Wesley, May 6, 1890, . . . . . No references.	21 10
420,756 Yost, Joseph L., and Moore, Charles J., Feb. 4, 1890, . . . . . References—Smith, 302,973. Nov. 13, 1888. Owen, 398,745. Feb. 26, 1889. Overman, 406,461. July 9, 1889. Warwick, 412,216. Oct. 1, 1889. Thomas & Howard, 339,949. April 13, 1886. 618 of 1876. English. 4,478 of 1876. " Hawgood, 259,535. June 13, 1882. Day, 388,480. Aug. 28, 1888. Chapin, 402,304. April 30, 1889. Golding, 8,049 of 1886. English. Interference with application of Geo. Harriott. Decision favorable to Yost & Moore.	15 8	427,076 Hamminger, Franz, May 6, 1890, . . . . . No references.	21 11
422,781 Hiller, Henry F., March 4, 1890, . . . . . References—Anderson, 91,589. June 22, 1869. White, 269,609. Dec. 26, 1882.	15 8	428,356 Smith, Daniel H., May 20, 1890, . . . . . No references.	21 11
		428,737 Withers, Addison L., Jr., May 27, 1890, . . . . . References—Laubach, 86,235. January 26, 1869. 9,538 of 1886. English. 13,043 of 1886. " Jeffery, 335,590. Feb. 9, 1886. Emerson, 99,546. Feb. 8, 1870. Shire, 216,231. June 3, 1879.	22 11

P.	C.		P.	C.				
Linley & Biggs, 354,642. Dec. 21, 1886. Mohring, 406,661. July 9, 1889. 13,127 of 1885. English. 1,216 of 1869. 85,885 of 1866. French. Latta, 387,979. Aug. 14, 1888.	22	11	444,141 Singer, George, Jan. 6, 1891, . . . . . References—Lawson, 345,851. July 20, 1886. Owen, 398,745. Feb. 26, 1889. 12,586 of 1886. English. 15,101 of 1887. "	29	14			
430,019 Hillman, William, June 10, 1890, No references.	22	11	444,637 Latta, Emmit G., Jan. 13, 1891, . . . . . References—Keating, 420,805. Feb. 4, 1890. Haynes, 392,557. Nov. 6, 1888. Copeland, 367,368. Aug. 2, 1887. Hendee, 423,249. March 11, 1890. Colling, 402,143. April 30, 1889. Laughlin, 332,263. Dec. 15, 1885. Jeffery, 398,158. Feb. 19, 1889. 3,294 of 1886. English. Warwick, 424,941. April 1, 1890. 15,101 of 1887. English. Smith, 493,153. May 14, 1889.	29	14			
432,124 Duryea, Charles E., July 15, 1890, References—Swain, 311,687. Feb. 3, 1885. O'Brien, 388,906. Sept. 4, 1888. Hazen & Hildreth, 359,536. March 15, 1887. Latta, 391,253. Oct. 16, 1888. Easthope, 404,693. June 4, 1889. Duryea, 402,313. April 30, 1889. Latta, 391,900. Oct. 30, 1888.	23	11	446,098 Hibbert, William E., and Manuel, Alfred, Jan. 10, 1891, . . . . . References—Smith, 392,973. Nov. 13, 1888. Jeffery, 411,035. Sept. 17, 1889. 13,782 of 1886. English. 14,689 of 1887. " 12,901 of 1886. " Withers, 428,737. May 27, 1890. Thuemler, 398,195. Feb. 10, 1889. Easthope, 404,693. March 8, 1887. Jeffery, 406,445. July 9, 1889. Warwick, 399,454. March 12, 1889.	30	15			
434,234 Barker, Arthur D., Aug. 12, 1890, No references.	24	12	446,175 Scantlebury, William, Feb. 10, 1891, . . . . . References—Easthope, 404,603. June 4, 1889. Keating, 420,805. Feb. 4, 1890. 14,698 of 1887. English. 12,899 of 1887. " Mohring, 406,661. July 9, 1889. Stover & Hance, 418,142. Dec. 24, 1889. Jeffery, 406,445. July 9, 1889. 1,213 of 1885. English.	30	15			
437,026 Flachs, Richard, Sept. 23, 1890, References—Racey, 90,302. May 8, 1869.	24	12	446,672 Elliott, Sterling, Feb. 17, 1891, . . . . . References—Unzicker, 242,490. June 7, 1881. Lawson, 90,563. May 25, 1869. Jeffery, 398,158. Feb. 19, 1889. Lawson, 345,851. July 20, 1886. Cole, 302,804. Aug. 5, 1884. Farr, 338,052. March 16, 1886. Torkelson, 391,212. Oct. 16, 1888. Brice, 243,346. June 21, 1881. Latta, 377,204. Jan. 31, 1888. Griffith, 338,151. March 16, 1886. House, 388,043. Aug. 21, 1888. Henry, 393,904. Dec. 4, 1888. Hammond, 225,010. March 2, 1880. Copeland, 391,947. Oct. 30, 1889. Knouse, 405,780. June 25, 1889. 3,294 of 1886. English. Latta, 315,304. April 7, 1885.	31	15			
439,128 Durkee, George B., Oct. 28, 1890, References—Greenough, 357,593. Feb. 15, 1887. Hall, 384,360. June 12, 1888. Dyble, 419,426. Jan. 14, 1890. 5,190 of 1878. English. Emerson, 99,546. Feb. 8, 1870.	26	13	443,663 Latta, Emmit G., Dec. 30, 1890, References—Torkelson, 426,402. April 22, 1890. Hanson & Fryburg, 406,581. July 9, 1889. Warwick, 384,946. June 19, 1888.	26	13	447,234 Donnelly, Samuel A., Feb. 24, 1891 . . . . . References—Lawson, 345,851. July 20, 1886. Warwick, 412,216. Oct. 1, 1889. Copeland, 412,322. Oct. 8, 1889. Hillman, 430,010. June 10, 1880. Hillman, 16,730 of 1888. English. Allen, 91,061. June 8, 1869. Unzicker, 355,038. Dec. 28, 1886. King, 373,803. Nov. 22, 1887. Latta, 428,919. Oct. 5, 1887.	31	16
440,944 Danzenbaker, Howe E., Nov. 18, 1890, . . . . . References—Torkelson, 426,402. April 22, 1890. Hanson & Fryburg, 406,581. July 9, 1889. Warwick, 384,946. June 19, 1888.	26	13	447,434 Latta, Emmit G., March 3, 1891, . . . . . References—R-Linson, 87,204. Feb. 23, 1886. Leddell, 367,049. July 26, 1887. Barrow & Guest, 425,017. April 8, 1891. Hillman, 430,010. June 10, 1880. Latta, 438,551. Oct. 14, 1890. 9,282 of 1887. English. 8,765 of 1884. " 42,758. German.	32	16			
441,649 Dunlop, John B., Dec. 2, 1890, No references.	27	13	443,818 Bullard, James H., Dec. 30, 1890, References—10,610 of 1885. English. 12,582 of 1887. " 13,127 of 1885. " Mohring, 406,661. July 9, 1889. Davis, 410,751. Sept. 10, 1889. Stover & Hance, 418,142. Dec. 24, 1889.	28	14	443,938 Fleming, Will A., Dec. 30, 1890, References—Davis, 410,751. Sept. 10, 1889. 349 of 1884. English. 2,253 of 1888. " 15,490 of 1886. " 1,287 of 1888. "	28	14

P.	C.	P.	C.			
447,478	Schindler, Joseph, March 3, 1891, References—Thomas, 422,549. March 4, 1890. Valquiet, 357,249. Feb. 8, 1887.	33	16	453,053 Teetor, Abe L., May 26, 1891, References—Jett, 433,172. July 29, 1890. 453,514 Shire, John, June 2, 1891, References—Jett, 433,172. July 29, 1890. Hanson, 420,060. Jan. 28, 1890. Duryea, 432,125. July 15, 1890.	38	19
447,741	Semple, Harry, March 3, 1891. References—Keating, 420,805. Feb. 4, 1890. Stevens, 390,916. Oct. 9, 1888. Overman & Hadley, 385,370. July 3, 1888. Buell, 90,723. June 1, 1869. Davis, 410,751. Sept. 10, 1889. Overman, 381,274. April 17, 1888. Wiggins, 358,178. Feb. 22, 1887. Owen, 398,745. Feb. 26, 1889. 13,782 of 1886. English.	33	16	453,514 Shire, John, June 2, 1891, References—Jett, 433,172. July 29, 1890. Fleming, 443,938. Dec. 30, 1890. 455,220 Lessells, Allan H., June 30, 1891. No references.	38	19
447,835	Leechman, George D., March 10, 1891, References—3,564 of 1879. English. 15,496 of 1886. "	33	17	455,673 Vincent, David P., July 7, 1891. References—Smith & Walker, 91,682. June 22, 1869. Samuels, 425,052. April 8, 1890. Oliver, 97,683. Dec. 7, 1869. Marlin, 369,540. Sept. 6, 1887.	39	20
448,850	Riess, Rudolph W., March 24, 1891, No references.	34	17	455,864 Cornelius, Wilbur F., July 14, 1891, References—Allen, 91,061. June 8, 1869. Young, 95,733. Oct. 12, 1869. O'Brien, 388,906. Sept. 4, 1888.	40	20
448,960	Hazard, Frederick J. H., March 24, 1891, No references.	34	17	455,945 Huelsen, Felix J., and Nagel, Jacob, July 14, 1891, References—Oliver, 97,683. Dec. 7, 1869. Marlin, 369,540. Sept. 6, 1887. Redman, 385,136. June 26, 1888. 17,598. German. Goulding, 404,832. June 11, 1889. Wiggins, 358,178. Feb. 22, 1887.	40	20
448,969	Lloyd, Walter J., and Priest, William, March 24, 1891, References—10,610 of 1885. English. 13,782 of 1886. " Latta, 378,253. Feb. 21, 1888.	34	18	456,387 Stillman, Walter, Jr., July 21, 1891, References—Gaffey, 137,431. April 1, 1873. Dale & Henderer, 155,183. Sept. 22, 1874. 5,657 of 1883. English. 618 of 1881. " Paussey & Crowden, 316,649. April 28, 1885. 3,172 of 1890. English. Lippey & Hughes, 261,005. July 11, 1882. Grout, 254,639. March 7, 1882.	40	20
449,581	Evans, John B., March 31, 1891, References—Emerson, 99,546. Feb. 8, 1870. Davis, 410,751. Sept. 10, 1889. Jeffery, 388,158. Feb. 19, 1889. 3,294 of 1886. English.	35	18	456,631 Mosher, Samuel E., July 28, 1891, References—Emerson, 99,546. Feb. 8, 1870. Davis, 410,751. Sept. 10, 1889.	41	20
450,705	Surbridge, Raymond G., April 21, 1891, References—Owen, 392,523. Nov. 6, 1888. Easthope, 404,693. June 4, 1889. Fay, 424,870. April 1, 1890. 12,899 of 1887. English.	36	18	457,080 Garford, Arthur L., Aug. 4, 1891, References—Latta, 360,101. March 29, 1887. Clegg, 427,048. May 6, 1890. Fay, 424,870. April 1, 1890. 15,618 of 1884. English.	41	20
450,888	Lloyd, Walter J., and Priest, William, April 21, 1891, References—O'Brien, 388,906. Sept. 4, 1888. Bodreau, 400,727. April 2, 1889. Bullard, 443,818. Dec. 30, 1890. Mohrig, 406,661. July 9, 1889.	36	18	457,290 Phillips, Charles, Aug. 4, 1891, References—Montgomery, 388,376. April 10, 1891. Montgomery, 438,935. Oct. 21, 1891. Lunsford, 305,698. Sept. 23, 1884.	41	20
451,429	Halladay, Lewis P., April 28, 1891, References—Winey, 353,904. Dec. 7, 1886. Hanson & Lobben, 420,059. Jan. 28, 1890. Perkins, 309,086. Dec. 9, 1884.	37	18	457,435 Garford, Arthur L., Aug. 11, 1891, References—Paussey & Crowden, 316,649. April 28, 1885. Winslow, 235,925. Dec. 28, 1880.	42	20
452,073	Huelsen, Felix J., and Nagel, Jacob, May 12, 1891, References—Latta, 443,663. Dec. 30, 1890. Scantlebury, 446,175. Feb. 10, 1891. McCarthy, 437,223. Sept. 30, 1890.	37	18	458,806 Harriott, George, Sept. 1, 1891, No references.	42	21
452,195	Rhoades, Hal V., and William H., May 12, 1891, References—Jeffery, 388,158. Feb. 9, 1889. Martin, 339,446. April 6, 1886. Latta, 360,101. March 29, 1887. Copeland, 367,368. Aug. 2, 1887.	37	18	459,003 Hanson, Olaus, Sept. 8, 1891, References—Hanson & Lobben, 420,057. Jan. 28, 1890.	42	21
452,196	Rowen, Nelson, May 12, 1891, References—Grahsler, 287,825. Nov. 6, 1883. Davis, 410,751. Sept. 10, 1889. Pressey, 233,640. Oct. 26, 1880. Davenport, 420,115. Jan. 28, 1890. Emerson, 99,516. Feb. 8, 1870. Stover & Hance, 418,142. Dec. 24, 1889. Thiemer, 398,195. Feb. 19, 1889.	38	19	459,569 Wilson, Stephen, Sept. 15, 1891, References—Wyndham, 106,529. Aug. 16, 1870. Ehrlich, 327,669. Oct. 6, 1885. King, 439,879. Nov. 4, 1890.	43	21
				460,179 Miller, Frank, Sept. 29, 1891, References—Warwick, 399,454. March 12, 1889. Warwick, 399,455. March 12, 1889. Watkins, 417,655. Dec. 17, 1889.	43	21

	P.	C.		P.	C.
460,180 Miller, Frank, Sept. 29, 1891.	43	21	972 of 1881. English. Warwick, 386,007. July 10, 1888. 9,101 of 1888. English. 17,438 of 1888. "		
References—Blackledge, 435,477. Sept. 2, 1890. 8,112 of 1887. English. 37,804. German. 12,899 of 1887. English. 17,438 of 1888. " 10,882 of 1889. "					
460,242 Morris, George L., and Wilson, William T., Sept. 29, 1891, . . .	43	21	465,861 Karmin, Valerian, Dec. 29, 1891, 48 25		
References—Hullman, 430,100. June 10, 1890. Latta, 443,663. Dec. 30, 1890. Lloyd & Priest, 421,946. Feb. 20, 1890.			References—Hendee, 423,249. March 11, 1890. 5,904 of 1887. English. Powers, 313,234. March 3, 1885. 17,881 of 1887. English. Davis, 410,751. Sept. 10, 1889. Goodrich, 437,191. Sept. 30, 1890. 10,610 of 1885. English. 3,607 of 1887. " 12,532 of 1887. " 14,689 of 1887. "		
460,641 Jeffery, Thomas B., Oct. 6, 1891, . . .	44	22	465,934 Keating, John D., Dec. 29, 1891, 48 25		
No references.			No references.		
461,191 Latta, Emmit G., Oct. 13, 1891, . . .	44	22	466,134 Edwards, William J., Dec. 29, 1891, . . . . .	49	25
References—Stover & Hance, 418,142. Dec. 24, 1889. 12,413 of 1887. English. 12,882 of 1884. " 8,481 of 1884. " Boudreau, 400,727. April 2, 1889. Overman, 308,533. Feb. 28, 1889. Hodge, 91,937. June 29, 1869. Thomas, 422,549. March 4, 1890. Latta, 391,900. Oct. 30, 1888. Copeland, 412,322. Oct. 8, 1889. Read, 420,416. Jan. 28, 1890. Hiller, 422,781. March 4, 1890. 6,302 of 1889. English. 18,579 of 1888. " Latta, 325,420. Sep. 1, 1885.			No references.		
461,356 Matern, William J., Oct. 13, 1891, . . .	45	22	59,915 Lallement, Pierre, Nov. 20, 1866, 49 25		
References—Jett, 433,172. July 29, 1890. 5,701 of 1889. English.			No references.		
461,588 Roberts, William E., Oct. 20, 1891, . . .	45	23	7,972 } Lallement, Pierre, (R.) Nov. 27, 59,915 } 1877, . . . . .	49	25
References—Woodward, 401,237. April 9, 1889. McCarthy, 437,223. Sept. 30, 1890.			References—Reynolds, 54,207. April 24, 1866.		
461,699 Anthony, Jesse, and Everitt, Arthur, Oct. 20, 1891, . . . . .	45	23	79,654 Hanlon, George, Wm., Alfred, Edward, and Frederick, July 7, 1868, 49 26		
References—Davis, 410,751. Sept. 10, 1889. Egg, 444,341. Jan. 6, 1891. Evans, 449,581. March 31, 1891.			No references.		
462,115 Eisenhart, Jeremiah, Oct. 27, 1891, . . . . .	46	23	3,297 Hanlon, George, William, Alfred, Edward, and Frederick, (R.) Feb. 9, 1869, . . . . .	50	26
References—Clough & Carter, 426,524. April 29, 1890. Latta, 387,979. Aug. 14, 1888.			No references.		
462,782 Trebert, Henry L. F., Nov. 10, 1891, . . . . .	46	23	85,527 Irwin, John H., Jan. 5, 1869, . . . . .	50	26
References—Veenier, 246,988. Sept. 13, 1881. Keating, 420,805. Feb. 4, 1890. Clough & Carter, 426,524. April 29, 1890.			No references.		
463,302 Decker, Thomas O., Nov. 17, 1891, . . . . .	47	24	86,235 Laubach, William H., Jan. 26, 1869, . . . . .	50	26
References—Fleming, 443,938. Dec. 30, 1890. Evans, 449,581. March 3, 1891. Leechman, 447,835. March 10, 1891.			No references.		
463,710 Mathews, James H., Nov. 24, 1891, . . . . .	47	24	86,339 Greenwood, George D., and Husted, Frank II., Jan. 26, 1869, . . . . .	50	26
References—Surbridge, 450,705. April 21, 1891. Owen, 392,523. Nov. 6, 1888. Woodward, 401,237. April 9, 1889. Johnston & Peifer, 360,595. April 5, 1887.			References—Lallement, 59,915. Nov. 30, 1866.		
464,324 Fernald, George W., Dec. 1, 1891, . . .	47	24	86,406 Irwin, John H., Feb. 2, 1869, . . . . .	51	26
References—Jeffery, 398,158. Feb. 10, 1889. Clegg, 389,200. Sept. 11, 1878. Latta, 443,663. Dec. 30, 1890.			No references.		
464,790 Evans, John B., Dec. 8, 1891, . . .	47	24	86,682 Miller, Charles H., and Ellis, George, Feb. 9, 1869, . . . . .	51	26
References—Terrot, 435,466. Sept. 2, 1890.			References—Irwin, 85,527. Jan. 5, 1869.		
465,599 McGlinchey, Charles E., Dec. 22, 1891, . . . . .	48	25	86,834 Hanlon, William, Feb. 9, 1869, . . . . .	51	26
References—Jeffery, 411,035. Sept. 17, 1889.			References—Southers, 11,446. Aug. 1, 1854.		
			87,033 Estell, Samuel F., Feb. 16, 1869, . . . . .	52	26
			No references.		
			87,204 Robinson, Charles H., Feb. 23, 1869, . . . . .	52	26
			References—Lallement, 59,915. Nov. 20, 1866.		
			87,225 Topliff, John A., and Ely, George H., Feb. 23, 1869, . . . . .	52	26
			No references.		

	P.	C.		P.	C.
87,999 Witty, Calvin, March 16, 1869, References—Goodman, 44,256. April 13, 1864. Quinn, 47,220. April 11, 1865.	52	27	92,412 Willecox, Albert O., Jr., July 6, 1869, No references.	57	28
88,120 Blair, John B., March 23, 1869, References—Barr, 30,192. Oct. 2, 1860. Edge, W. C., 2,737 of 1862. English. “American Artisan,” Feb. 21, 1868.	53	27	92,460 Laurence, Henry, July 13, 1869, References—Plagge, C. Oct. 29, 1867. Hanlon, 79,654. July 7, 1868. Hotchkiss, G. June 2, 1836.	58	28
88,198 Paine, William L., March 23, 1869, No references.	53	27	92,485 Smith, William H., July 13, 1869, References—House & Snyder, 89,047. April 20, 1869. Hanlon, (R.) 3,297. Feb. 9, 1869.	58	28
88,205 Plass, Reuben H., March 23, 1869, No references.	53	27	92,976 Lauer, John, July 27, 1869, . . . References—Plagge, C. Oct. 29, 1867.	58	29
88,507 Pickering, Thomas R., March 30, 1869, . . . . .	53	27	92,991 Morse, Thomas N., July 27, 1869, References—4,321 of 1818. English. Monroe, 86,856. Feb. 9, 1869. Estell, 87,033. Feb. 16, 1869.	59	29
References—Lallement, 59,915. Nov. 20, 1866. Halton Bros., 79,654. July 7, 1868. Interference with the application of Wm. H. Laubach. Decision favorable to Laubach.			94,055 Allen, Arthur M., Aug. 24, 1869, No references.	59	29
88,703 Ferguson, Henry J., April 6, 1869, No references.	54	27	94,056 Allen, Arthur M., Aug. 24, 1869, References—Matticeon, E. May 28, 1861. Souther, 11,446. Aug. 1, 1854. Irwin, 89,584. May 4, 1869. Pickering, 88,507. March 30, 1869. Bausman, A. L. Aug. 8, 1865.	59	29
88,738 Read, J. B., April 6, 1869, . . .	54	27	94,057 Allen, Arthur M., Aug. 24, 1869, References—Laubach, 86,235. Jan. 26, 1869. Hoepner, 64,418. May 7, 1867. Buzzell, S. D. (Rejected case) of 1850. Plagge, C. Oct. 29, 1867.	59	29
89,149 Irvnig, Joseph, April 20, 1869, . .	54	27	95,325 Coleman, Willam H., Sept. 28, 1869, No references.	60	29
References—Hanlon, 86,834. Feb. 9, 1869.			95,629 Andrews, Solomon, Oct. 12, 1869, References—Plagge, C. Oct. 29, 1867. Hotchkiss, G. June 2, 1836.	60	29
89,293 Cowles, Edwin, and Metten, George R., April 27, 1869, . . . . .	55	27	95,753 Young, McClintock, Oct. 12, 1869, No references.	60	29
References—Blake, 84,163. Nov. 17, 1866. Stewart, P. Feb. 23, 1869. Barr, 30,192. Oct. 2, 1860. Hanlon, 79,654. July 7, 1868. Hanlon, (R.) 3,297. Feb. 9, 1869. Wood, 85,501. Dec. 29, 1868. Reynolds, (R.) Dec. 21, 1861.			96,208 Dayton, Charles E., Oct. 26, 1869, References—Estell, 87,033. Feb. 16, 1869. Cline, 86,906. Feb. 16, 1869.	60	29
89,695 Smith, John C., May 4, 1869, . . .	55	27	96,466 Muehle, Bernard H., Nov. 2, 1869, References—Laubach, 86,235. Jan. 26, 1869. Connelly, P. M. 1865. Olmstead, E. A. F. July 10, 1866. Hanlon, 79,654. July 7, 1868. Hanlon, (R.) 3,297. Feb. 9, 1869. Bogel, 35,583. June 17, 1862.	61	29
No references.			97,683 Olivier, Rene, Dec. 7, 1869, . . .	61	29
90,220 Baldwin, Arvide O., and Miller, Charles H., May 18, 1869, . . . . .	55	28	No references.		
References—Robinson, D. J. Jan. 26, 1869.			103,957 Allen, Arthur M., June 7, 1870, References—Merrill, R. S. (Rejected case). Filed March 24, 1868.	61	29
90,489 Boris, P. J., May 25, 1869, . . . . .	55	28	Smith, 89,443. April 27, 1869. Behel, J. (Forfeited case). Filed Jan. 29, 1869. Burns, 87,630. March 9, 1869.		
References—Hanlon, 79,654. July 7, 1868. Barr, 30,192. Oct. 2, 1860. Wood, 85,501. Dec. 29, 1868.			106,529 Wyndham, Charles, Aug. 16, 1870, References—Blair, J. B., 88,120. March 26, 1869. Lawrence, 92,460. July 13, 1869.	62	30
90,563 Lawson, Benjamin S., May 25, 1869, .	56	28	107,226 Coffin, Mark, Sept. 13, 1870 . . .	64	30
References—Witty, 87,999. March 16, 1869. Hanlon. Nov. 20, 1868.			References—Souther, 11,446. Aug. 1, 1854. Fuller, 844 of 1856. English.		
90,595 Simpson, Joseph, May 25, 1869,	56	28	185,401 Marble, George W., Dec. 19, 1876, . . .	64	30
References—Hanlon, 79,654. July 7, 1868. Hanlon, (R.) 3,297. Feb. 9, 1869. Perry, 87,287. Feb. 23, 1869. Blair, 88,120. March 23, 1869.			References—Schmidt, 91,169. June 8, 1869. Young, 96,648. Nov. 9, 1869. Marble, 171,623. Dec. 28, 1875. Buell, 99,723. June 1, 1869.		
90,723 Buell, George C., June 1, 1869, . . .	56	28	196,943 Smith, John, and Thurston, Ed- ward T., Nov. 6, 1877, . . . . .	64	30
No references.			References—Lawrence, 178,066. May 30, 1876.		
91,061 Allen, Arthur M., June 8, 1869,	56	28			
References—Callaghan, 85,640. Jan. 5, 1860. Lallement, 59,915. Nov. 20, 1866. Wood, 85,501. Dec. 29, 1868. Irwin, 89,405. Feb. 2, 1869. Olmstead, E. F. B. July 10, 1866.					
91,682 Smith, Charles H., and Walker, George D., June 22, 1869 . . . . .	57	28			
References—Monroe, 86,856. Feb. 9, 1869. Hanlon, (R.) 3,297. Feb. 9, 1869. Pickering, 88,507. March 30, 1869.					
91,896 Allen, Arthur M., June 29, 1869;	57	28			
References—Foley, D. D. Sept. 13, 1864. Plass, 88,205. March 23, 1869. Plagge, C. Oct. 29, 1867.					

	P.	C.		P.	C.
211,960 Blood, Edwin J., Feb. 4, 1879, . . . . .	64	30	13,354 of 1884. English.		
No references.			349,802 King, Homer A., Sept. 28, 1886, . . . . .	68	32
216,231 Shire, John, June 3, 1879, . . . . .	65	30	References—Hart, 339,765. April 13, 1886.		
References—Monroe, 86,836. Feb. 9, 1869.			Lorenz, 298,217. May 6, 1884.		
219,551 Will, Henry, and Uebele, Conrad, Sept. 9, 1879, . . . . .	65	30	King, 341,383. May 4, 1886.		
References.—Westinghouse, 27,588. March 20, 1860.			366,703 Thresher, Harry, July 19, 1887, . . . . .	69	32
Lawrence, 89,543. April 27, 1869.			No references.		
Marqua, 154,500. Aug. 25, 1874.			377,204 Latta, Emmit G., Jan. 31, 1888, . . . . .	69	32
Will & Uebele, 189,588. April 17, 1877.			References—Lorenz, 298,217. May 6, 1884.		
229,562 Trautmann, (July 6, 1880, . . . . .	65	30	Hanlon, 86,834. Feb. 9, 1869.		
232,620 Charles M., (Sept. 28, 1880, . . . . .			Leddell, 306,498. Oct. 14, 1884.		
References—Heller, 8,818. July 22.			Rudling & Coffin, 319,130. June 2, 1885.		
Goodman, 42,256. Sept. 13, 1864.			Morse, 92,991. July 22, 1860.		
240,300 Browne, James E., April 19, 1881, . . . . .	65	30	Marble, 328,499. Oct. 20, 1885.		
References—Irwin, 89,584. May 4, 1869.			Boris, 90,489. May 25, 1869.		
Muehle, 96,466. Nov. 2, 1869.			Latta, 315,304. April 17, 1885.		
243,166 Shirreff, Charles J., June 21, 1881, . . . . .	66	30	Marble, 316,047. April 21, 1885.		
No references.			Emerson, 99,546. Feb. 8, 1870.		
258,559 Crane, Moses G., May 30, 1882, . . . . .	66	30	Giles, 252,455. Jan. 17, 1882.		
References—Baldwin & Miller, 90,220. May 18, 1869.			15,448 of 1884. English.		
Cowles & Metten, 89,293. April 27, 1869.			3,504 of 1879. "		
278,972 Kimball, Stephen H., June 5, 1883, . . . . .	66	31	349 of 1884. "		
References—Bean, 245,434. Aug. 9, 1881.			9,773 of 1884. "		
Will & Uebele, 189,588. April 17, 1877.			Wright, 342,801. June 1, 1886.		
Croft, 194,416. Aug. 21, 1877.			384,543 Price, Abel F., June 12, 1888, . . . . .	70	33
280,054 McCall, Robert S., and Joseph W., June 26, 1883, . . . . .	66	31	References—2,552 of 1876. English.		
References—Emerson, 99,546. Feb. 8, 1870.			Allen, 94,056. Aug. 24, 1869.		
Bodel et al., 169,774. Nov. 9, 1875.			Leddell, 306,499. Oct. 14, 1884.		
281,489 Girard, Jean B., July 17, 1883, . . . . .	67	31	393,417 Brown, Harvey, Nov. 27, 1888, . . . . .	70	33
References—Reynolds, 90,579. May 25, 1869.			References—Wilcox, 92,412. July 6, 1869.		
Giles, 252,455. Jan. 17, 1882.			Richards, 252,329. Jan. 17, 1882.		
Rittenhouse, 266,527. Oct. 24, 1882.			Crane, 258,559. May 30, 1882.		
Trautmann, 229,562. July 6, 1880.			Price, 384,543. June 12, 1888.		
Jennings, 94,215. Aug. 3, 1869.			McCall, 280,054. June 26, 1883.		
Stickney, 88,750. April 6, 1869.			Rathmann & Johnson, 90,687. June 1, 1869.		
331,518 McClure, Alexander W., Dec. 1, 1885, . . . . .	67	31	397,099 Unzicker, Otto, Jan. 29, 1889, . . . . .	71	33
References—Martin, 124,500. March 12, 1872.			No references.		
Butterfield, 61,602. Jan. 22, 1869.			402,460 Kibbe, George, April 30, 1889, . . . . .	72	33
Wirtz, 91,398. June 15, 1869.			References—8,049 of 1886. English.		
Mackenzie, 36,161. Aug. 12, 1862.			Crowley, 233,640. Aug. 4, 1885.		
Muehle, 96,466. Nov. 2, 1869.			Morse, 92,991. July 27, 1869.		
Lautbach, 86,335. Jan. 26, 1869.			Lewis, 242,784. June 14, 1881.		
Andrews, 92,928. July 27, 1869.			Buell, 90,723. June 1, 1869.		
Rowe, 90,585. May 25, 1869.			Dearlove & Thresher, 381,763. April 24, 1888.		
Dayton, 90,208. Oct. 26, 1869.			Weston, 88,759. April 6, 1869.		
834 of 1869. English.			Richard, 252,329. Jan. 17, 1882.		
342,620 McClure, Alexander W., May 25, 1886, . . . . .	68	31	5,930 of 1884. English.		
References—361 of 1870. English.			607 of 1884. "		
3,959 of 1874. "			Kibbe, 393,337. Dec. 4, 1888.		
Klahr, 285,821. Oct. 2, 1883.			Rucker, 322,974. July 28, 1885.		
Brown, 240,300. April 19, 1881.			Latta, 387,979. Aug. 14, 1888.		
Quaterman, 287,960. Nov. 6, 1883.			403,059 Moore, Thomas W., May 7, 1889, . . . . .	72	34
Hamby, 290,576. Dec. 18, 1883.			References—1,813 of 1870. English.		
Pressey, 233,640. Oct. 26, 1880.			404,562 Reynolds, Stephen D., June 4, 1889, . . . . .	73	34
Wyndham, 106,529. Aug. 16, 1870.			References—Sawyer, 222,537. Dec. 9, 1879.		
4,121 of 1881. English.			McMurray, 351,118. Oct. 19, 1886.		
McClure, 331,518. Dec. 1, 1885.			Plass, 88,205. May 23, 1869.		
Humber, 305,690. Sept. 23, 1884.			404,771 Breux, Joseph F., June 4, 1889, . . . . .	73	34
345,851 Lawson, Henry J., July 20, 1886, . . . . .	68	32	References—361 of 1870. English.		
References—3,564 of 1870. English.			3,957 of 1874. "		
1,249 of 1869. "			410,179 Newhauser, Otto, Sept. 3, 1889, . . . . .	74	34
3,934 of 1870. "			References—Hoepner, 64,418. May 7, 1867.		
12,507 of 1884. "			410,335 Sanborn, William E., Sept. 3, 1889, . . . . .	74	34
15,342 of 1884. "			References—Muhle, 96,466. Nov. 2, 1869.		
349 of 1884. "			Bodel et al., 169,774. Nov. 9, 1875.		
176 of 1884. "			Lowden, 247,078. Sept. 13, 1881.		
6,767 of 1884. "			411,035 Jeffery, Thomas B., Sept. 17, 1889, . . . . .	74	34
			References—Stassen, 284,500. Sept. 4, 1883.		

	P.	C.	P.	C.
8,049 of 1886. English. Smith, 392,973. Nov. 13, 1888. Starley, 9,794 of 1887. English.			3,814 of 1876. English. 4,707 of 1880. "	
416,016 Schrader, Frederick, Nov. 26, 1889, . . . . .	75	35	3,802 of 1880. " 2,926 of 1869. " Otto, 246,031. Aug. 23, 1881. Post, 285,513. Set. 25, 1883.	
References—Hanlon, 86,834. Feb. 19, 1860. Leddell, 306,494. Oct. 14, 1884. Martin, 369,541. Sept. 6, 1887. Hadley, 331,295. Dec. 1, 1885. Starr, 328,353. Oct. 13, 1885. Smith, 392,973. Nov. 13, 1888. 16,679 of 1886. English. Hamby, 290,576. Dec. 18, 1883.			Snowden, 380,059. March 27, 1880. Cooper, 351,251. Oct. 19, 1886. Hart, 339,705. April 13, 1886. Davis, 93,067. July 27, 1869. Knapp, 400,090. March 26, 1880. Tragardh, 250,607. Dec. 6, 1881.	
420,036 Clark, Alexander H., Jan. 28, 1890, . . . . .	75	35	443,482 Hunt, Franklin B., Dec. 23, 1890, 81 39	
References—Hendrickson, 280,473. July 3, 1883. Browne, 215,876. May 27, 1879. Morse, 92,991. July 27, 1869. Spofford & Raffington, 91,379. June 15, 1869.			References—Smith, 351,942. Nov. 2, 1886. 9,283 of 1886. English.	
421,068 Surfleet, Francis R., Feb. 11, 1890, . . . . .	76	35	443,721 Hunt, Franklin B., Dec. 30, 1890, 81 39	
References—Mercer, 354,337. Dec. 14, 1886. Depuy, 349,145. Sept. 14, 1886. Serrall, 87,713. March 9, 1869. Reed, 90,782. June 1, 1869. Andrews, 92,928. July 27, 1869.			References—Pressey, 233,640. Oct. 26, 1880. Hunter, 414,048. Oct. 29, 1889. Clegg, 427,948. May 6, 1890. Letter of Dec. 8, 1890, missing from the file.	
422,549 Thomas, Amos W., March 4, 1890, . . . . .	76	35	444,639 O'Neill, William R., Jan. 13, 1891, . . . . .	82 40
References—Baillie-Hamilton, 270,896. Jan. 23, 1883. Powers, 313,234. March 3, 1885. Jeffery, 395,147. Dec. 25, 1888.			No references.	
425,471 Toense, Carl G., April 15, 1890,	76	36	444,868 Worth, William O., Jan. 20, 1891, 82 40	
References—Frie, 37,328. Nov. 15, 1887.			References—Owen, 392,523. Nov. 6, 1888. O'Brien, 413,414. Oct. 22, 1889.	
425,837 Toquet, Benjamin L., April 15, 1890, . . . . .	77	36	445,125 McGlinchey, Charles E., Jan. 20, 1891, . . . . .	82 40
References—Kilbe, 402,460. April 30, 1889. Price, 384,543. June 12, 1888. Sawyer, 222,537. Dec. 9, 1879. 4,873 of 1880. English.			No references.	
433,172 Jett, John, July 29, 1890, . . . . .	77	36	446,354 Kane, John H., Feb. 10, 1891, 83 40	
References—Marshall, 315,805. April 14, 1885. Warwick, 329,517. Nov. 3, 1885. Garrood, 348,276. Aug. 30, 1886.			References—Gaffey, 137,431. April 1, 1873. Dale & Henderer, 155,183. Sept. 22, 1874. 5,657 of 1883. English. Pausey & Crowdhen, 316,649. April 28, 1885. 3,172 of 1890. English.	
436,305 Crandall, Jesse A., Sept. 9, 1890, 77 36			447,099 Archer, Frank, and Bowley, Ar- thur S., Feb. 24, 1891, . . . . .	83 40
References—No references.			No references.	
436,673 Schwertfuehrer, Max, Sept. 16, 1890, . . . . .	78	36	450,938 Hunt, Franklin B., April 21, 1891, . . . . .	83 40
References—Lewis, 242,784. June 14, 1881.			References—Warwick, 438,124. Oct. 7, 1890. Reynolds, 81,289. Aug. 18, 1868. Isbell, 391,535. Oct. 23, 1888. Glover, 437,591. Sept. 30, 1890.	
436,844 Thorp, Thomas J., Sept. 23, 1890, 78 37			450,997 Dies, Charles A., April 21, 1891, 84 40	
References—Burbank, 352,989. Nov. 23, 1886. Carr, 273,815. March 13, 1883. Melin, 422,080. Feb. 25, 1890. Lose, 325,548. Sept. 1, 1885.			No references.	
436,873 Hardy, Emery E., Sept. 23, 1890, 78 37			451,080 Stroud, Edward M., April 28, 1891, . . . . .	84 41
References—3,814 of 1876. English. Leddell, 306,498. Oct. 14, 1884. Beall, 280,558. July 3, 1883. 533 of 1881. English.			No references.	
437,827 White, Frederick, Oct. 7, 1890, 79 38			454,583 Moynahan, Frederick H. S., June 23, 1891, . . . . .	84 41
References—Healey, 301,234. July 1, 1884. Nye, 321,910. July 7, 1885. Bentley, 399,003. March 5, 1880. Lawson, 345,851. July 20, 1886.			References—Van Anden, 88,238. March 23, 1869. Sawyer, 222,537. Dec. 9, 1879. Torquet, 425,837. April 15, 1890. Rennison, 293,081. Feb. 5, 1884.	
438,684 L'Epplattenier, Charles, Oct. 21, 1890, . . . . .	80	38	458,106 Hatcher, Edwin H., Aug. 18, 1891, . . . . .	85 41
References—10 of 1870. English.			References—4,414 of 1884. English. 3,867 of 1885. " 15,118 of 1885. " Sloan, 261,395. July 18, 1882. Jeffery, 335,590. Feb. 9, 1886.	
441,409 Hardy, Emery E., Nov. 25, 1890, 80 38			459,016 Noyes, La Verne W., Sept. 8, 1891, . . . . .	85 41
References—De Sable, 341,736. May 11, 1886. Watson, 363,189. May 17, 1887.			No references.	
			464,789 Evans, John B., Dec. 8, 1891, . . .	86 41
			References—Kane, 446,354. Feb. 10, 1891.	

	P.	C.		P.	C.
Grout, 254,639. March 7, 1882. Dies, 450,997. April 21, 1891. Davis, 410,751. Sept. 10, 1889.			White, 273,922. March 13, 1883. 3,281 of 1871. English. 1,813 of 1870. " 13,291 of 1884. " Bailey-Hamilton, 270,896. Jan. 23, 1883. Jones, 296,837. April 15, 1884. Overman, 270,691. Jan. 16, 1883. Latta, 361,101. March 29, 1887.		
465,475 Hardy, Emery E., Dec. 22, 1891, . . . 86 42			423,471 Easthope, Alfred, March 18, 1890, 92 45		
References—Hardy, 441,409. Nov. 25, 1890. 4,078 of 1888. English. 11,852 of 1889. "			References—13,782 of 1886. English. 9,630 of 1887. " 12,899 of 1887. " 13,921 of 1887. "		
Rathbun, 449,383. March 31, 1891. Readio, 420,416. Jan. 28, 1890. Surfleet, 421,068. Feb. 11, 1890. Perieux, 124,621. March 12, 1872. James, 442,980. Dec. 16, 1890. Parker, 361,233. April 12, 1887. Smith, 392,973. Nov. 13, 1888. Starley & Owens, 415,072. Nov. 12, 1889.			431,529 Redlinger, Michael, July 1, 1890, 93 45		
465,859 Jolly, Claudio, Dec. 29, 1891, . . . 87 42			References—Warwick, 386,097. July 10, 1888. 3,688 of 1884. English. 16,064 of 1886. " Lawson, 345,851. July 20, 1886. Laubach, 86,235. Jan. 26, 1869. Pickering, 88,507. March 30, 1869. Jeffery, 383,131. May 22, 1888.		
Safeties, Drop Frame.			435,477 Blackledge, Rollin H., Sept. 2, 1890, . . . . . 94 45		
384,990 Marlin, Mahlone H., June 26, 1888, . . . . . 87 42			References—Oliver, 97,683. Dec. 7, 1869. Redman, 385,136. June 27, 1886.		
References—14,194 of 1885. English. 12,225 of 1885. " 3,811 of 1885. "			437,191 Goodrich, Harry C., Sept. 30, 1890, 94 46		
388,043 House, Herbert E., Aug. 21, 1888, . . . 88 42			References—Davis, 410,751. Sept. 10, 1889. Stover & Hance, 418,142. Dec. 24, 1889. 10,610 of 1885. English. 12,582 of 1887. " 3,607 of 1887. " 12,413 of 1887. "		
390,916 Stevens, William F., Oct. 9, 1888, . . . 88 42			438,551 Latta, Emmet G., Oct. 14, 1890, 95 46		
No references.			References—Veeder, 371,234. Oct. 11, 1887. Leddell, 367,049. July 26, 1887. Kibbe, 402,460. April 30, 1889. 1,581 of 1888. English. 44,994. German. 13,078 of 1884. English. 1,559 of 1887. " Stevens, 390,916. Oct. 9, 1888. Jeffery, 406,445. July 9, 1889. Smith, 403,153. May 14, 1889.		
398,745 Owen, Herbert S., Feb. 26, 1889, . . . 88 42			439,095 Becker, Hugo A., Oct. 28, 1890, 96 47		
References—12,586 of 1886. English. 10,957 of 1885. " 1,613 of 1885. " 270 of 1885. " 8,199 of 1887. "			References—13,782 of 1886. English. 12,586 of 1886. "		
401,105 Babe, Desire A., April 9, 1889, . . . 88 43			439,922 Wood, Ellery W., and Burnap, Charles E., Nov. 4, 1890, . . . . . 96 47		
References—8,716 of 1884. English. Wyndham, 106,529. Aug. 16, 1870. Blair, 88,120. March 23, 1869.			References—Elliis, 280,299. June 26, 1883. Veeder, 371,234. Oct. 11, 1887. Leddell, 319,983. June 16, 1885. Matterson, 329,959. July 28, 1885. Parker, 362,233. April 12, 1887. Goodsell, 384,150. June 5, 1888.		
403,153 Smith, William E., May 14, 1889, . . . 89 43			440,897 Latta, Emmet G., Nov. 18, 1890, 97 47		
No references.			References—17,881 of 1887. English. 5,940 of 1887. " 918 of 1888. " Hanlon, 86,834. Feb. 9, 1869. 810 of 1887. English. Martin, 339,446. April 6, 1886. Latta, 391,900. Oct. 30, 1888. Jeffery, 398,158. Feb. 19, 1889. Owen, 389,745. Feb. 26, 1889. O'Brien, 413,415. Oct. 22, 1889. 16,033 of 1887. English. Latta, 315,304. April 7, 1885. 428 of 1885. English. King, 358,204. Feb. 22, 1887. Latta, 323,695. Aug. 4, 1885.		
420,805 Keating, Robert M., Feb. 4, 1890, . . . 90 43			442,871 Edwards, William J., Dec. 16, 1890, . . . . . 98 48		
References—Smith, 392,973. Nov. 13, 1888. Latta, 391,253. Oct. 16, 1888. 3,742 of 1885. English. Keating, 326,046. Oct. 4, 1889. Warwick, 337,880. Jan. 23, 1890. Interference with application of George T. Warwick. Decision favorable to Keating.			References—Warwick, 412,216. Oct. 1, 1889. McCall, 280,004. June 26, 1883.		
421,748 McElraine, John J., Feb. 18, 1890, . . . 91 44					
No references.					
422,548 Thomas, Amos W., March 4, 1890, . . . 91 44					
References—1,813 of 1870. English. McCall, 280,054. June 26, 1883. Latta, 377,204. Jan. 31, 1888. McClure, 331,518. Dec. 1, 1885. McClure, 342,620. May 25, 1886. Overman & Hadley, 270,691. Jan. 16, 1883.					

	P. C.		P. C.
Latta, 360,101. March 29, 1887. Price, 384,543. June 12, 1888. 9,966 of 1888. English.	48	796 of 1883. English. Latta, 380,495. April 3, 1888. 4,913 of 1885. English.	
4,442 Latta, Emmet G., March 17, 1891, 99 References—Shire, 216,231. June 3, 1879. Starley, 352,841. Nov. 16, 1886. 1,559 of 1887. English. Owen, 392,523. Nov. 6, 1888. Owen, 398,745. Feb. 26, 1889. Warwick, 399,455. March 12, 1889. 17,080 of 1887. English. Mohrig, 406,616. July 9, 1889. Kibbe, 402,407. April 30, 1889. Jeffery, 411,035. Sept. 17, 1889. Stevens, 390,916. Oct. 9, 1888. 5,295 of 1879. English.	48	391,895 Hall, John W., Oct. 30, 1888, . . 105 51 References—4,913 of 1885. English. 15,149 of 1885. “	
451,428 Halladay, Lewis P., April 28, 1891, . . . . . 100 49 References—Warwick, 399,455. March 12, 1889. Perkins, 399,086. Dec. 9, 1884. Spaulding, 408,902. Aug. 13, 1889. Samuels, 425,052. April 8, 1890.	49	399,774 O'Brien, Thomas, March 19, 1889, 105 51 No references.	
452,649 Powell, Abram G., May 19, 1891, 100 49 References—Jeffery, 406,445. July 9, 1889. Pausey & Crowdew, 316,649. April 28, 1885. Hall, 391,895. Oct. 30, 1888. Owen, 398,745. Feb. 26, 1889. O'Brien, 394,287. Dec. 11, 1888. Clouse, 433,889. Aug. 5, 1890. Jeffery, 398,158. Feb. 19, 1889. 3,294 of 1886. English. Dodge, 366,819. July 19, 1887. 123,018 of 1887. French. Ewart, 377,852. Feb. 7, 1888. Van Schaumburg, 348,432. Aug. 31, 1886. Bailey, 179,253. June 27, 1876. Greene, 91,435. June 10, 1869.	49	400,204 Golding, William, March 26, 1889, 105 51 References—14,157, of 1885. English. Amess, 251,398. Dec. 27, 1881. 12,349 of 1885. English. 1,828 of 1886. “ 3,867 of 1885. “ Serrall, 87,713. May 9, 1869. Andrews, 16,017. July 27, 1869. King, 327,954. Oct. 6, 1875. Leddell, (R.) 10,673. Dec. 15, 1885. 2,174 of 1882. English. Ferris, 354,777. Dec. 21, 1886. 14,157 of 1885. English. 10,885 of 1885. “ 7,516 of 1886. “ Andrews, 310,868. Jan. 20, 1885. Atherton, 295,894. April 1, 1884.	
455,395 Goodrich, Harry C., July 7, 1891, 101 49 References—Davis, 410,751. Sept. 10, 1889. 10,610 of 1885. English. Interference with application of Herbert E. House. Decision favorable to Goodrich.	49	413,189 Kirk, John A., Oct. 22, 1889, 108 52 References—Duryea, 357,819. Feb. 15, 1887. Griffith, 338,151. March 16, 1886. 3,564 of 1883. English. Interference with the application of Josiah J. Boucher. Decision favorable to Kirk.	
456,217 Goodrich, Harry C., July 21, 1891, 101 49 No references.	49	415,072 Starley, William, and Owen, Herbert, S., Nov. 12, 1889, . . . 108 52 References—13,191, of 1887. English. Smith, 391,490. Oct. 23, 1888. Copeland, 391,947. Oct. 30, 1888. 1,285, of 1888. English.	
311,687 Swain, Fremont, Feb. 3, 1885, . . 102 49 References—Irwin, 86,405. Feb. 2, 1869.	49	415,740 Sharp, Archibald, Nov. 26, 1889, 109 52 References—Laubach, 86,235. Jan. 26, 1869.	
316,649 Pausey, Herbert J., and Crowdew, Charles T., April 28, 1885, . . . 102 50 References—Humber, 305,690. Sept. 23, 1884.	50	428,991 Woodward, Charles E. W., and Overman, Charles R., May 27, 1890, 110 52 References—Healy, 341,237. May 4, 1886. 5,733 of 1886. English. 10,037 of 1887. “ 184 of 1888. “ Smith, 392,973. Nov. 13, 1888. 6,521 of 1888. English.	
371,513 Muller, Valentine H., Oct. 11, 1887, . . . . . 102 50 References—4,913 of 1885. English. 15,149 of 1885. “ Swain, 311,687. Feb. 3, 1885. Morris, 238,245. March 1, 1881. Zacharias, 302,462. July 22, 1884. 754 of 1870. English.	50	434,615 Warwick, George T., Aug. 19, 1890, . . . . . 110 52 References—Swain, 311,687. Feb. 3, 1885. Crowley, 367,025. July 26, 1887. 9,256 of 1884. English. White, 269,609. Dec. 26, 1882. Giles, 252,455. Jan. 17, 1882.	
372,428 O'Brien, Thomas, Nov. 1, 1887, 103 50 References—3,281 of 1871. English. Wyndham, 106,529. Aug. 16, 1870. Read, 88,738. April 6, 1869. Lawson, 90,563. May 25, 1869. Irwin, 86,406. Feb. 2, 1869. McClure, 342,620. May 25, 1886.	50	442,174 Elliott, Sterling, Dec. 9, 1890, . . 111 53 References—Harrington, 324,317. Aug. 11, 1885. Latta, 380,495. April 3, 1888.	
386,601 O'Brien, Thomas, July 24, 1888, 103 50 No references.	50	448,358 Moore, Thomas L., March 17, 1891, . . . . . 111 53 References—Woodward & Overman, 428,991. May 27, 1890.	
391,490 Smith, William E., Oct. 23, 1888, 104 50 References—5,738 of 1886. English.	50	450,712 Voss, Frederick, April 21, 1891, 112 53 References—Whitman, 416,699. Dec. 3, 1889. Leeper, 420,578. Feb. 4, 1890. Jeffery, 362,668. Aug. 19, 1890.	
457,242 Barr, Henry G., and Peck, Frank E. Aug. 4, 1891, . . . . . 112 53			

P. C.	P. C.
References—White, 437,827. Oct. 7, 1890. Peck, 437,820. Oct. 7, 1890. Johnson & Fyrberg, 388,48. Aug. 21, 1888. McCune & Yost, 424,994. April 8, 1890.	232,783 Tripler, Charles E., and Roff, William H. Sept. 28, 1880, . . . 117 56
460,031 Rastetter, Louis, and Siebold, Crist, Sept. 22, 1891, . . . . . 113 54	References—Coe, 123,809. Feb. 20, 1872. 233,723 Britton, Henry W., Oct. 26, 1880, 118 56
References—Jeffery, 434,449. Aug. 19, 1890. Sager, 442,207. Dec. 9, 1890. Bear, 406,872. July 16, 1889.	References—Sawyer, 222,537. Dec. 9, 1879. 235,925 Winslow, Gorham N., Dec. 28, 1880, . . . . . 118 56
460,453 Sonnenen, Christian, Sept. 29, 1891, . . . . . 113 54	References—Gaffey, 137,431. April 1, 1873. Barr, 108,055. Nov. 8, 1870. Baltz, 212,884. March 4, 1879.
References—15,488 of 1888. English. Woodward & Overman, 428,991. May 27 1890. Copeland, 391,947. Oct. 30. 1888.	236,259 Reid, Joseph, Jan. 4, 1881, . . . 119 56
<b>Safeties, Hand Propelled.</b>	
87,596 Stafford, M. B., March 9, 1869, 113 54	References—Wilmarth, 89,822. May 4, 1869. Crosby, 170,994. Dec. 14, 1875. Humphrey, 191,286. May 29, 1877.
References—Hanlon, 79,654. July 7, 1868. 4,321 of 1818. English.	241,395 McKenzie, James A., May 10, 1881, . . . . . 119 56
90,687 Rathmann, Henry, and Johnson, George H., June 1, 1869, . . . . 114 54	References—Simpson, 90,595. May 25, 1869. Cowles & Metten, 89,293. March 27, 1869. Tripp & Roff, 232,783. Sept. 28, 1880. Hanlon, 79,654. July 7, 1868.
References—Lallement, 59,915. Nov. 20, 1866. Kirk, 62,427. Feb. 26, 1867.	244,931 Remnyson, William, July 26, 1881, . . . . . 119 56
93,751 Sawhill, S. H., Aug. 17, 1869, 114 54	No references.
References—Hanlon, 86,834. Feb. 9, 1869. Hanlon, 79,654. July 7, 1868. Samuels, 87,205. Feb. 23, 1869.	246,988 Venner, Orange H., Sept. 13, 1881, . . . . . 120 56
229,562 { Trautmann, } July 6, 1880, 114 54	No references.
232,620 { Charles M., } Sept 28, 1880, 114 54	248,709 Churchill, Lucius R., Oct. 25, 1881, . . . . . 120 56
References—Heller, July 22, 1819. Goodman, 44,256. Sept. 13, 1864.	References—McDougall, 89,783. May 4, 1869.
259,853 Hull, Welcome, H., and O'Rear, James W., June 20, 1882, . . . . 114 54	249,447 Bacon, Fred. W., Nov. 15, 1881, 120 56
References—Libbey, 88,492. March 30, 1869. Vick, 228,496. June 8, 1880. Allgaier, 89,964. May 11, 1869.	References—Hill et al., 229,252. June 29, 1880. Trautman, 229,562. July 6, 1880. Harrington, 240,005. May 3, 1881. Coffin, 107,226. Sept. 13, 1870. Finchbaugh, 39,561. Aug. 18, 1863. Davis, 151,360. May 26, 1874. Wolfram & Ellwein, 129,199. July 16, 1872. Green, 91,435. June 15, 1869.
287,943 Kennedy, DeLaney, Nov. 6, 1883, 115 54	250,316 Whiting, William, A., Nov. 29, 1881, . . . . . 121 56
References—Morris, 260,887. July 11, 1882. Winslow, 235,025. Dec. 28, 1880. Pressey, 234,722. Nov. 23, 1880. Gilbert, 222,779. Dec. 23, 1879. Lewis, 242,784. June 14, 1881.	References—Katon & Bonfils, 186,136. Jan. 9, 1877. Hill, 88,872. April 13, 1869.
<b>Uprights, Trailing Wheel.</b>	
222,537 Sawyer, Sylvester, Dec. 9, 1879, 116 55	250,607 Tragardh, Rudolph, Dec. 6, 1881, 121 57
References—Hancock, 194,870. Sept. 4, 1877. Hermance, 111,644. Feb. 7, 1871. Tucker, 170,605. Nov. 30, 1875. Smith & Thurston, 106,943. Nov. 6, 1877. Barnett, 45,130. Nov. 22, 1864.	No references.
224,153 Davis, Percy L., Feb. 3, 1880, . . 116 55	251,398 Amess, James, Dec. 27, 1881, 121 57
References—Unzicker, 204,636. June 4, 1878. Higley, 201,179. March 12, 1878.	No references.
225,010 Hammelmann, Charles, March 2, 1880, . . . . . 116 55	252,329 Richard, Edmund O., and Rich- ard, Jean E., Jan. 17, 1882, . . . 121 57
References—Coleman, 95,325. Sept. 28, 1869. Katon & Bonfils, 186,136. Jan. 9, 1870.	References—Reid, 236,259. Jan. 4, 1881. Smith & Thurston, 106,943. Nov. 6, 1877. Lawrence, 178,066. May 30, 1876. Bodel et al., 169,774. Nov. 9, 1875. Greenwood & Husted, 86,339. Jan. 26, 1869. Fowler, 227,511. May 11, 1880.
225,239 Sawyer, Sylvester, March 9, 1880, 117 55	254,082 Wiard, George, Feb. 21, 1882, 122 57
References—Brewer, 132,893. Nov. 12, 1872. Simpson, 90,595. May 25, 1869.	References—McDougall, 89,783. May 4, 1869.
228,996 Hosea, Lewis M., June 22, 1880, 117 55	255,775 Curtin, Andrew F. April 4, 1882, 122 57
References—Plass, 88,205. March 23, 1869. Denham, 222,022. Nov. 25, 1879. O'Neill, 89,235. April 20, 1869. Davis, 224,153. Feb. 3, 1880. Thompson, 90,797. June 1, 1869.	No references.
<b>Wheels.</b>	
264,374 Tragardh, Rudolph, Sept. 12, 1882, 122 57	264,374 Tragardh, Rudolph, Sept. 12, 1882, 122 57
References—Lawrence, 92,460. July 13, 1869.	References—Lawrence, 92,460. July 13, 1869.
266,527 Rittenhouse, Frank, Oct. 24, 1882, 123 57	266,527 Rittenhouse, Frank, Oct. 24, 1882, 123 57
References—Remnyson, 244,931. July 26, 1881. Davis, 224,153. Feb. 3, 1880.	References—Remnyson, 244,931. July 26, 1881.
280,558 Beale, John, July 3, 1883, 123 58	References—Hammelmann, 225,010. March 2, 1880.

P. C.	P. C.
282,938 Warner, Charles H., Aug. 7, 1883, 124	58
References—Dutton, 247,809. Oct. 4, 1881. 5,285 of 1880. English. 4,763 of 1880. “	
283,306 Warner, Charles H., Aug. 14, 1883, . . . . .	124 58
References—Fowler, 240,990. May 3, 1881. Cowles & Metten, 89,293. April 27, 1869.	
283,612 Kellogg, Henry, Aug. 21, 1883,	125 58
No references.	
288,537 Woerd, Charles V., Nov. 13, 1883, 125	58
References—Nowak, 152,160. June 16, 1874.	
290,576 Hamby, William S., Dec. 18, 1883, . . . . .	125 59
References—Katon & Bonfils, 186,136. Jan. 9, 1877. Dutton, 247,809. Oct. 4, 1881. Hammelmann, 225,010. March 2, 1880.	
292,961 Strait, Hiram, Feb. 5, 1884, . . .	126 59
References—Ward, 86,683. April 6, 1869. Otto, 246,031. Aug. 23, 1881. Tragardh, 204,374. Sept. 12, 1882.	
293,081 Remnison, William, Feb. 5, 1884, 126	59
References—Anthony, 277,974. May 22, 1883. Venner, 246,988. Sept. 13, 1881.	
293,377 Thompson, Richard C., and Spence, William, Feb. 12, 1884, . . .	126 59
No references.	
303,530 Loser, Charles, Aug. 12, 1884, 127	59
References—Bailey, 97,340. Nov. 30, 1869. Higley, 201,179. March 12, 1878.	
303,821 DeBeaupieu, George, Aug. 19, 1884, 127	59
No references.	
304,504 Clemson, William, Sept. 2 1884, 127	60
References—Beale, 280,558. July 3, 1883. Reinhart, 95,515. Oct. 5, 1859. Ruggles, 217,241. July 8, 1879.	
310,548 Von Malkowsky, Robert, Jan. 6, 1885, . . . . .	128 60
No references.	
310,858 Yost, Joseph, L., Jan. 13, 1885, 128	60
No references.	
311,320 Hillman, William, Jan. 27, 1885, 128	60
References—1,205 of 1880. English.	
312,473 Jeffery, Thomas B., Feb. 17, 1885, 129	60
References—Hillman, 241,361. May 10, 1881. Sawyer, 210,470. Dec. 3, 1878. Sawyer, 220,667. Oct. 14, 1879. Gould, 137,547. April 8, 1873. Moran, 245,542. Aug. 9, 1881. Latta, 315,304. July 3, 1883. Jeffery, 275,917. April 17, 1883. 1,160 of 1880. English. Salamon, 236,372. Jan. 4, 1881.	
314,160 Work, Charles L., March 17, 1885, 129	60
References—3,550 of 1879. English. 1,160 of 1881. “ 486 of 1879. “ Churchill, 248,709. Oct. 25, 1881. 4,799 of 1880. English. Davis, 148,422. March 10, 1874. 137 of 1879. English. 5,295 of 1879. “ Unzicker, 242,490. June 7, 1881. 3,849 of 1879. English. 1,937 of 1880. “ 11,715 of 1847. “ Gendron, 261,222. July 18, 1882. Atkins n, 200,241. Feb. 12, 1878. Stoliker, 50,425. Oct 10, 1865.	
Price, 243,346. June 21, 1881. Jeffery, 259,313. June 13, 1882. Salamon, 236,372. Jan. 4, 1881.	
314,335 Johnston, Thomas, March 24, 1885, 130	61
References—Sawbill, 93,751. Aug. 17, 1869. Higley, 201,179. March 12, 1878. Spring, 90,034. May 11, 1869.	
316,009 Clemson, William, April 21, 1885, 130	61
References—Beale, 280,558. July 3, 1883. Maliby, 123,571. Feb. 13, 1872. 2,164 of 1879. English.	
316,047 Marble, George W., April 21, 1885, 130	61
References—Foye, 249,607. Nov. 15, 1881. Otto, 246,031. Aug. 23, 1881. 3,478 of 1880. English.	
318,532 Beavis, Arthur J., and Frank S., May 26, 1885, . . . . .	131 61
References—Dutton, 247,809. Oct. 4, 1881.	
319,130 Rudling, William A., and Coffin, John F., June 2, 1885, . . . . .	131 61
References—Anderson, 91,589. June 22, 1869.	
319,385 Bevan, William, June 2, 1885, 131	61
References—Tragardh, 264,374. Sept. 12, 1882.	
321,910 Nye, William E., July 7, 1885, 131	61
References—Healy, 301,234. July 1, 1884. 1,34 of 1880. English.	
322,221 Warwick, George T., July 14, 1885, 132	62
References—Jeffery, 275,917. April 17, 1883. 1,272 of 1880. English.	
323,066 Owen, Frederick D., July 28, 1885, 132	62
References—Hanlon, 86,834. Feb. 9, 1869. Young, 95,753. Oct. 12, 1869. Lewis, 242,784. June 14, 1881. 1,272 of 1880. English. 3,312 of 1883. “	
323,085 Taylor, George J., July 28, 1885, 133	62
References—Clemson, 304,504. Sept. 2, 1884. 4,069 of 1883. English. 4,263 of 1878. “	
323,695 Latta, Emmitt G., Aug. 4, 1885, 133	62
References—3,478 of 1880. English. Ballou-Hamilton, 270,896. Jan. 23, 1883. 5,433 of 1883. English.	
327,399 Latta, Emmitt G., Sept. 29, 1885, 134	62
References—Hillman, 311,320. Jan. 27, 1885. Wallace, 312,411. Feb. 17, 1885. Latta, 315,304. April 7, 1885. Lillibridge, 294,645. March 4, 1884. 1,016 of 1884. English. 487 of 1884. “ 1,568 of 1883. “ McCoy, 314,701. March 31, 1885.	
327,669 Ehrlich, Leo, Oct. 6, 1885, . . .	134 63
References—Blair, 88,120. March 23, 1869. Tragardh, 264,374. Sept. 12, 1882. Laurer, 92,976. July 27, 1869. Andrews, 95,629. Oct. 12, 1869.	
328,353 Starr, Henry N., Oct. 13, 1885,	135 63
References—Lewis, 242,754. June 14, 1881. Richard, 252,624. Jan. 24, 1882. Read, 88,738. April 6, 1869. 3,564 of 1879. English. Pickering, 88,507. March 30, 1869. Maelhe, 99,466. Nov. 2, 1869. Wood, 299,609. June 3, 1884. Wyndham, 106,529. Aug. 16, 1870. 114 of 1883. English. Peet, 299,919. Dec. 25, 1883. Kelly, 304,827. Sept. 9, 1884. 1,008 of 1883. English.	

P. C.	P. C.
Interference with application of Robert P. Scott. Decision favorable to Scott.	
328,693 Latta, Emmitt G., Oct. 20, 1885, 135	63
References—Potter, 287,717. Oct. 30, 1883. Kirkpatrick, 314,142. March 7, 1885. Salamon, 230,372. Jan. 4, 1881.	
328,709 Paessler, Theophilus H., Oct. 20, 1885, . . . . . 136	63
References—Perkins, 284,475. Sept. 4, 1883.	
329,402 Lyon, Wallace, Oct. 27, 1885, 136	63
No references.	
334,325 Yost, Joseph L., Jan. 12, 1886, 136	63
References—Dutton, 247,Soo. Oct. 4, 1881. Yost, 310,858. Jan. 13, 1885. Amess, 251,308. Dec. 27, 1881. Warner, 382,938. Aug. 7, 1883.	
10,864 } Yost, Joseph L., (R.) Sept. 6, 334,325 } 1887, . . . . . 137	64
No references.	
339,436 Latta, Emmitt G., and Adrian C., April 6, 1886, . . . . . 137	64
References—Williams, 305,770. Sept. 30, 1884. Thompson & Spencer, 293,377. Feb. 12, 1884. Marble, 316,047. April 21, 1885. 1,070 of 1882. English. 4,964 of 1884. " " Frazier & Austin, 91,734. June 22, 1869. Carter, 301,478. July 8, 1884. 5,991 of 1882. English.	
339,765 Hart, Harrie B., April 13, 1886, 138	64
References—Laurence, 89,543. April 27, 1869. Swain, 311,687. Feb. 3, 1885. Tragardh, 264,374. Sept. 12, 1882. Foot, 291,323. Jan. 1, 1884. Jeffery, 259,313. June 13, 1882. 3,564 of 1879. English. Gideon, 278,534. May 29, 1883. Gendron, 261,222. July 18, 1882. 4,666 of 1879. English. 5,882 of 1882. " " Waldo, 284,781. Sept. 11, 1883. Tripler & Roff, 232,783. Sept. 28, 1880. Hosea, 228,906. June 22, 1880. Kellogg, 283,612. Aug. 21, 1883. Interference with application of George S. Long. Decision favorable to Long.	
341,526 Whitehead, Benjamin S., May 11, 1886, . . . . . 138	64
References—131 of 1887. English. 2,603 of 1875. " " 2,835 of 1884. " "	
350,583 Duryea, Charles E., Oct. 12, 1886, 138	65
References—4,478 of 1884. English. Perkins, 300,886. Dec. 9, 1884. Plass, 88,205. March 23, 1869. Irwin, 86,406. Feb. 2, 1869. Hosea, 228,906. June 22, 1880. Rittenhouse, 266,529. Oct. 24, 1882. Simpson, 99,595. May 25, 1869. Owen, 323,066. July 28, 1885.	
351,118 McMurray, Albert K., Oct. 19, 1886, . . . . . 139	65
References—Dutton, 247,809. Oct. 4, 1881. McKenzie, 241,395. May 10, 1881. Wyndham, 106,529. Aug. 16, 1870. Hamilton, 225,010. March 2, 1880. 4,829 of 1880. English. 14,540 of 1884. " "	
352,190 Jeffery, Thomas B., Nov. 9, 1886, 139	65
References—638 of 1881. English. Martin, 339,446. April 6, 1886.	
353,904 Winey, Elijah L., Dec. 7, 1886, 40	65
References—Buell, 90,723. June 1, 1869. Smith & Walker, 91,682. June 22, 1869. Lorenz, 298,217. May 6, 1884. 1,813 of 1870. English.	
356,095 Bouck, Charles A., Jan. 18, 1887, 140	66
References—Plass, 88,205. March 23, 1869. Sawyer, 222,537. Dec. 9, 1879. Auld, 289,746. Dec. 4, 1883. Wright, 181,235. Aug. 15, 1876.	
359,126 Brusie, James, March 8, 1887, 140	66
References—Laurence, 92,460. July 13, 1869. Bevans, 319,385. June 2, 1885. JanGrav, 330,123. Nov. 10, 1875.	
359,127 Brusie, James, March 8, 1887, 140	66
References—JanGrav, 330,123. Nov. 10, 1885. Blount, 323,280. July 28, 1883. Sharp, 14,540 of 1884. English.	
359,448 Kelsey, Benjamin, March 15, 1887, 141	66
References—1,421 of 1884. English. 4,155 of 1883. " " 4,865 of 1881. " " 1,900 of 1879. " " 3,478 of 1880. " "	
359,536 Hazen, William L., and Hildreth, George H., March 15, 1887, . . . 141	66
References—14,540 of 1884. English.	
360,017 Hernandez, Eleuterio C., March 29, 1887, . . . . . 142	66
No references.	
362,220 Lin nell, Philetus E. May 3, 1887, 142	66
References—Curtin, 255,775. April 4, 1882. Boris, 90,489. May 25, 1869.	
362,407 Warwick, George T., May 3, 1887, 142	67
References—Latta, 325,944. Sept. 8, 1885. Hanlon, 86,834. Feb. 9, 1869. Latta, 231,508. July 7, 1885. Strickland, 347,977. Aug. 24, 1886. Latta, 324,508. Aug. 18, 1885. Starr, 328,353. Oct. 13, 1885. Leddell, 306,498. Oct. 14, 1884. 562 of 1882. English. Laubauch, 86,235. Jan. 26, 1869. Marble, 171,623. Dec. 28, 1875.	
364,231 Duryea, Charles E., June 7, 1887, 143	67
References—4,904 of 1880. English. 1,070 of 1880. " " 5,199 of 1883. " " Latta, 323,162. July 28, 1885. 2,947 of 1882. English. 5,295 of 1879. " " 12,277 of 1884. " " Jackson, 238,30 of 1884. English. Linkey, 6,934 of 1884. " " 4,157 of 1882. " "	
371,747 Feeley, Thomas W., Oct. 18, 1887, 143	67
References—Pihlefeldt, 327,408. Sept. 29, 1885. Latta, 339,436. April 6, 1886. White, 300,544. June 17, 1884.	
379,373 Davis, Henry A., March 13, 1888, 143	67
References—Hanlon, 86,834. Feb. 9, 1869. Cooley, 261,136. July 18, 1882.	
384,643 Rourk, Francis, June 19, 1888, . . . 144	67
References—Coleman, 95,325. Sept. 28, 1869. Dutton, 247,809. Oct. 4, 1881.	
384,946 Warwick, George T., June 19, 1888, 144	67
References—2,947 of 1882. English. Warwick, 322,221. July 14, 1885. 4,964 of 1880. English. 5,307 of 1882. " " Driscoll, 232,001. Sept. 28, 1880.	

P. C.	P. C.
Smith, 268,437. Dec. 5, 1882. 911 of 1881. English. 2,786 of 1880. " "	465,136 Horton, Numon N., Dec. 15, 1891, 152 71
385,258 Evans, James E., June 26, 1888, 145 68	References—Williams, 305,771. Sept. 30, 1884. Williams, 325,301. Sept. 1, 1885.
References—Yost & McCune, 367,883. Aug. 9, 1887. Redman, 356,600. Jan. 25, 1887.	Kelsey, 359,448. March 15, 1887. Otto, 246,031. Aug. 23, 1881. Latta, 315,304. April 7, 1885. Latta, 327,399. Sept. 29, 1885. Cummings, 87,913. March 16, 1869. Latta, 328,235. Oct. 13, 1885.
385,620 Hart, Harry B., July 3, 1888, 145 68	465,140 McCammon, John, Dec. 15, 1891, 153 71
No references.	References—Monnin & Filliez, 361,310. April 19, 1887. Anderson, 91,589. June 22, 1869. Hardy, 441,409. Nov. 25, 1890.
386,990 Kibbe, George, July 31, 1888, 145 68	—
References—Jeffery, 333,128. Dec. 29, 1885. McCune, 302,763. May 10, 1887. Rich, 350,994. Oct. 19, 1886.	Uprights, Tandem.
388,427 Marlin, John M., Aug. 28, 1888, 146 68	302,329 Foss, Eli H., July 22, 1884, 154 72
No references.	No references.
388,446 Rice, David H., Aug. 28, 1888, 147 69	306,498 Leddell, Charles S., Oct. 14, 1884, 154 72
No references.	References—5,295 of 1870. English. Wanner, 98,819. Jan. 11, 1870.
391,241 Gongware, Turney H., and Hanley, Edwin K., Oct. 16, 1888, . . . 147 69	319,983 Leddell, Charles S., June 16, 1885, 155 72
References—Hull, 300,286. June 10, 1884.	No references.
393,044 Unzicker, Otto, Nov. 20, 1888, 147 69	320,073 Leddell, Charles S., June 16, 1885, 155 73
References—Otto, 358,291. Feb. 22, 1887. Jeffery, 259,13. June 13, 1882. 13,511 of 1884. English. McCune, 362,763. May 10, 1887. Martin, 339,446. April 6, 1886. Rodes, 325,104. Aug. 25, 1883. Harris, 371,580. Oct. 18, 1887. 4,251 of 1884. English. 66 of 1876. "	No references.
399,454 Warwick, George T., March 12, 1889, . . . 148 69	10,673 { Leddell, Charles S., (R.) Dec. 15, 320,073 } 1885, . . . . . 157 74
References—Warwick, 322,221. Jan. 14, 1885. Warwick, 362,407. May 3, 1887. Parker, 341,816. May 11, 1886. 4,687 of 1877. English. Harrison, 252,939. Jan. 31, 1882. Kenny, 15,400. July 29, 1856. Taylor, 122,415. Jan. 2, 1872. Latta, 325,420. Sept. 1, 1885. Latta, 328,693. Oct. 20, 1885. Wait, 345,465. July 13, 1886. Yost & McCune, 366,287. July 12, 1887.	References—Deering, 309,933. Dec. 30, 1884. Bradford, 55,214. March 13, 1866. 2,174 of 1882. English.
400,090 Knapp, Joseph, March 26, 1889, 149 70	322,974 Rucker, Martin D., July 28, 1885, 159 74
References—Tragardh, 250,607. Dec. 6, 1881. Gibson, 151,660. June 2, 1874.	References—Foss, 302,329. July 22, 1884.
434,605 Molin, Charles G., Aug. 19, 1890, 149 70	376,241 Filliez, Peter F., and Monnin, Alpheus C., Jan. 10, 1888, . . . 159 75
References—Kieder, 234,064. Nov. 2, 1880. Reed & Frazee, 361,024. April 12, 1887. Morell, 86,573. Feb. 2, 1869.	References—Hoffmire, 134,989. Jan. 21, 1873. Sawhill, 93,751. Aug. 17, 1869.
448,204 Briggs, Henry, March 17, 1891, 149 70	—
References—Anderson, 91,589. June 22, 1869. Amess, 251,398. Dec. 27, 1881. Hoak, 341,911. May 18, 1886.	Uprights with Pilot Wheel.
451,588 Worms, Eugene, and Zwierzchowski, Alexander S., May 5, 1891, 150 70	233,640 Pressey, George W., Oct. 26, 1880, 159 75
References—Rennison, 293,081. Feb. 5, 1884. Jeffery, 434,449. Aug. 19, 1890. McMurray, 351,118. Oct. 19, 1886.	References—Andrews, 92,928. July 27, 1869. Fishwick, 184,852. Nov. 28, 1876. Smith, 92,485. July 13, 1869. Ingersoll, 217,535. July 15, 1879. Simpson, 90,595. May 25, 1869. Paine, 88,198. March 23, 1869.
459,586 Leddell, Charles S., Sept. 15, 1891, 151 70	234,722 Pressey, George W., Nov. 23, 1880, 160 75
References—729 of 1881. English. 4,121 of 1881. "	References—Simpson, 90,595. May 25, 1869. Frick, 108,127. Oct. 11, 1870. Look, 94,326. Aug. 31, 1869. Greene, 169,100. Oct. 6, 1875.
481,729 Latta, Harry B., June 16, 1885. English.	242,784 Lewis, Edward A., June 14, 1881, 160 75
References—Hanlon, 79,654. July 7, 1868. Pressey, 233,610. Oct. 26, 1880. Holske & Babitt, 91,018. June 8, 1869. Cooke, 152,214. June 23, 1874. 2,663 of 1875. English.	References—
281,475 Perkins, Lyman C., Sept. 4, 1883, 160 75	285,821 Klahr, William, Oct. 2, 1883, 160 75
No references.	References—1,909 of 1879. English. 4,917 of 1881. "
298,217 Lorenz, William A., May 6, 1884, 161 75	298,217 Lorenz, William A., May 6, 1884, 161 75
References—Runyon, 244,931. July 26, 1881. Repetti, 96,963. Nov. 16, 1869. Zoobl, 208,876. Oct. 8, 1878. Blake, 84,163. Nov. 17, 1868. 3,715 of 1880. English.	References—Runyon, 244,931. July 26, 1881. Repetti, 96,963. Nov. 16, 1869. Zoobl, 208,876. Oct. 8, 1878. Blake, 84,163. Nov. 17, 1868. 3,715 of 1880. English.

P.	C.	P.	C.
306,499 Leddell, Charles S., Oct. 14, 1884, 161	76	References—Ugland, 191,347. June 2, 1885. Perkins, 309,086. Dec. 9, 1884. 4,121 of 1881. English. 5,284 of 1881. "Kelley, 321,819. July 7, 1885.	
References—848 of 1882. English.			
309,086 Perkins, Lyman C., Dec. 9, 1884, 161	76	350,995 Rich, Williard G., Oct. 19, 1886, 169	80
References—533 of 1881. English. Smith & Walker, 91,682. June 22, 1869. Irving, 89,149. April 20, 1869. 4,121 of 1881. English.		References—Richards, 252,624. Jan. 24, 1882. Smith, 92,485. July 13, 1869. 4,121 of 1881. English.	
320,917 Eyster, William N., June 30, 1885, 162	76	353,380 Rust, Lucian A., Nov. 30, 1886,	169
References—Pressey, 234,722. Nov. 23, 1880. Simpson, 90,505. May 25, 1869.		References—Laubash, 86,235. Jan. 26, 1869. Muehle, 96,466. Nov. 2, 1869. 6,705 of 1884. English. Leddell, 319,983. June 16, 1885.	
321,819 Kelley, William S., July 7, 1885, 162	76	354,535 Carter, Anson A., Dec. 21, 1886,	170
References—Stevens, 293,284. Feb. 12, 1884. Lewis, 242,784. June 14, 1881. 2,870 of 1877. English. Combs & Metten, 89,293. April 27, 1869. 5,284 of 1881. English. Crane, 258,559. May 30, 1882. Overman & Hadley, 270,691. Jan. 16, 1883. Silver, 293,366. Feb. 12, 1884. 2,932 of 1860. English. Hancock & Salomon, 232,266. Sept. 14, 1880. Shire, 216,231. June 3, 1879. 4,121 of 1881. English. 3,934 of 1879. " 3,939 of 1874. " 5,284 of 1881. " Interference with patent to Overman & Hadley, 270,691. Jan. 16, 1883. Decided in favor of Kelley.		No references.	
321,932 Kelley, William S., July 7, 1885, 163	77	357,691 Rice, David H., Feb. 15, 1887,	170
References—Pressey, 234,722. Nov. 23, 1880. 4,597 of 1882. English. Warwick, 289,733. Dec. 4, 1883. Howell, 293,251. Feb. 12, 1884.		No references.	
323,289 Blount, John G., July 28, 1885, 164	77	360,595 Johnston, Robert, and Peiser, George W., Jr., April 5, 1887,	171
References—Waldo, 284,781. Sept. 11, 1883.		References—Gibbons, 340,109. April 20, 1886.	
328,499 Marble, George W., Oct. 20, 1885, 164	77	361,280 Gaylor, Leonard B., April 19, 1887,	171
References—Boris, 90,489. May 25, 1869. Foss, 302,329. July 22, 1884. Pressey, 233,640. Oct. 26, 1880. Browne, 240,300. April 19, 1881. Cyclist for 1882 and 1883.		References—Foss, 302,329. July 22, 1884. Perkins, 309,086. Dec. 9, 1884. Hicks, 250,917. Dec. 13, 1881. Marble, 328,499. Oct. 20, 1885. Lorenz, 298,217. May 6, 1884. Klahr, 285,821. Oct. 2, 1883.	
329,102 Tryon, Joseph M., Oct. 27, 1885, 165	78	367,049 Leddell, Charles S., July 26, 1887,	171
No references.		References—Winslow, 235,925. Dec. 28, 1880. Rice, 342,878. June 1, 1886. 6,705 of 1884. English. 1,305 of 1879. " 2,392 of 1884. " 10,449 of 1884. " 2,017 of 1883. " 796 of 1883. "	
330,346 Owen, Herbert S., Nov. 10, 1885, 165	78	369,864 Mallette, George W., Sept. 13, 1887,	172
References—Klahr, 285,821. Oct. 2, 1883. Hancock, 191,870. Sept. 4, 1877. Overman & Hadley, 270,691. June 16, 1883.		References—Hadley, 335,811. Feb. 9, 1886. Robinson, 340,617. April 27, 1886. 6,767 of 1884. English. Hinckley & Culver, 213,109. March 11, 1879. Unzicker, 257,415. May 2, 1882. Denham, 222,222. Nov. 25, 1879.	
331,173 Weidman, George W., Nov. 24, 1885, . . . . . 165	78	382,913 Smith, Sidney, May 15, 1888,	172
No references.		References—	
331,199 Jannus, Frankland, Nov. 24, 1885, 166	79	393,837 Kibbe, George, Dec. 4, 1888,	173
References—20,173 of 1882. German.		References—Foss, 302,329. July 22, 1884. Richard, 252,329. Jan. 17, 1882. Monnin & Filliez, 361,310. April 19, 1887. Kibbe, 385,717. July 10, 1888. Price, 384,543. June 12, 1888. Boris, 90,489. May 25, 1869. Thiessen, 364,782. June 14, 1887. Prescott, 341,389. May 4, 1886. 4,763 of 1880. English. Latta, 323,162. July 28, 1885. 2,920 of 1889. English.	
342,878 Rice, David H., June 1, 1886,	166	401,339 Fletcher, Richard H., April 16, 1889, . . . . .	174
References—Leddell, 319,083. June 16, 1885. Richards, 252,624. Jan. 24, 1882. Leddell, 320,073. June 16, 1885. Leddell, 360,498. Oct. 14, 1884. Kellogg, 283,612. Aug. 21, 1883. 848 of 1882. English. 4,121 of 1881. "		No references.	
342,915 Leddell, Charles S., June 1, 1886,	167	404,123 Taylor, George J., May 28, 1889,	175
References—Hamby, 290,576. Dec. 18, 1883. Whiting, 250,316. Nov. 29, 1883. 2,174 of 1882. English. Foss, 302,329. July 22, 1884.		References—Jeffery, 352,109. Nov. 9, 1886. Gaylor, 361,280. April 19, 1887. 8,015 of 1885. English.	
349,532 Slocomb, John T., Sept. 21, 1886,	168	433,562 Gaylor, Leonard B., Aug. 5, 1890,	175
No references.		References—Wallace, 318,149. May 19, 1885. Robinson, 257,073. April 25, 1882. Latta, 301,245. July 1, 1884. Gaylor, 361,280. April 19, 1887. McCune 362,763. May 10, 1887.	
350,994 Rich, Williard G., Oct. 19, 1886,	168		
	80		

	P. C.	P. C.
Martin, 339,446. April 6, 1886. Knouse, 363,522. May 24, 1887. Garrood, 295,161. March 18, 1884. Latta, 323,162. July 28, 1885. Wallace, 318,149. May 19, 1885.		
438,935 Montgomery, James W., Oct. 21, 1890, . . . . .	176	84
References—Allen, 91,061. June 8, 1869. Lawson, 99,563. May 25, 1869. Ashbury, 285,940. Oct. 2, 1883. Leddell, 320,073. June 16, 1885. Gaylor, 301,280. April 17, 1887. Jannus, 331,199. Nov. 24, 1885.		
441,627 Chappell George H., Nov. 25, 1890, . . . . .	176	84
References—Venner, 246,988. Sept. 13, 1881. Latta, 294,641. March 4, 1884. Nye, 321,910. July 7, 1885. 134 of 1880. English. Umstead, 160,487. March 2, 1875.		
<b>Tricycles, Hand Propelled.</b>		
9,708 Minniss, Thomas S., May 10, 1853, . . . . .	178	97
No references.		
19,092 Kellner, Louis, Jan. 12, 1858, . . . . .	178	97
No references.		
36,160 Longgett, Alexis, Aug. 12, 1862, . . . . .	178	97
No references.		
40,547 Bander, Charles L., Nov. 10, 1863, . . . . .	178	97
No references.		
44,256 Goodman, Joseph, Sept. 13, 1864, . . . . .	179	97
References—Mackenzie, P. W., 36,161. Aug. 12, 1862. Mackenzie, P. W., 39,349. July 28, 1863. Boyd, Henry. June 17, 1862.		
71,561 Way, Charles A., Nov. 26, 1867, . . . . .	179	97
No references.		
71,562 Way, Charles A., Nov. 26, 1867, . . . . .	179	97
No references.		
83,696 Cutter, C. N., Nov. 3, 1868, . . . . .	180	97
No references.		
84,163 Blake, E. K. W., Nov. 17, 1868, . . . . .	180	97
No references.		
86,573 Morrell, James A., Feb. 2, 1869, . . . . .	180	97
No references.		
87,769 Gardner, Franklin B., and Trageser, John, March 16, 1869, . . . . .	180	97
No references.		
88,492 Libbey, H. W., March 30, 1869, . . . . .	181	98
References—Smith, A. July 21, 1868. Sauthier, George, 11,446. Aug. 1, 1854. Brown, D. C. Oct. 29, 1861.		
88,574 Lindon, William, April 6, 1869, . . . . .	181	98
No references.		
90,470 Soule, L. H., May 25, 1869, . . . . .	181	98
No references.		
91,379 Spofford, Fisher A., and Raffing- ton, Mathew G. June 15, 1869, . . . . .	182	98
No references.		
91,438 Harper, C. A., June 15, 1869, . . . . .	182	98
No references.		
91,602 Butterfield, Abner L., June 22, 1869, . . . . .	182	98
No references.		
93,991 Haynes, James H., Aug. 24, 1869, . . . . .	182	98
No references.		
98,092 Neale, Robert, Dec. 21, 1869, . . . . .	183	98
References—Wadham, Edward. July 11, 1865. Carter, V. (Rejected case.) 1837. Brown, E. (Rejected case.) Dec. 29, 1845.		
98,592 Haynes, John H., Jan. 4, 1870, . . . . .	183	98
References—Rathman & Johnson, 90,687. June 1, 1869. Whitehead, 88,426. March 30, 1869.		
99,096 Lowe, R. E., Jan. 25, 1870, . . . . .	183	98
References—Reynolds, U. May 22, 1866. Goodman, Joseph, 44,256. Sept. 13, 1864. Chase, William K., 53,572. April 3, 1866.		
100,097 Allgaier, John, Feb. 22, 1870, . . . . .	183	98
References—Ring, T. (Rejected case.) Filed April 26, 1845.		
102,423 Nisldoush, Stas., April 26, 1870, . . . . .	184	99
References—Goodman, Joseph, 44,256. Sept. 13, 1864. Robinson, Daniel T., 86,251. Jan. 26, 1869.		
115,212 Janson, Bernhard, May 23, 1871, . . . . .	184	99
No references.		
116,409 Brown, Adna, June 27, 1871, . . . . .	184	99
References—Christian & Reinhart, 87,245. Feb. 23, 1869.		
118,695 Crandall, Jesse A., Sept. 5, 1871, . . . . .	185	99
No references.		
123,707 Kind, Robert, Feb. 13, 1872, . . . . .	185	99
No references.		
133,211 Delescaillie, Peter, Nov. 19, 1872, . . . . .	185	99
References—Reynolds, James, 90,579. May 25, 1869. Green, J. (Rejected case.) Filed Jan. 18, 1869. Nye, Charles H. (Rejected case.) Filed March 9, 1869.		
137,431 Gaffey, William, April 1, 1873, . . . . .	185	99
No references.		
142,285 Scott, Sylvester D., Aug. 26, 1873, . . . . .	186	99
References—Sprout, A. R. (Rejected case.) Filed April 9, 1864. Sabin, I. H. June 28, 1870.		
144,551 McClure, James F., Nov. 11, 1873, . . . . .	186	99
References—Case, J. M., 88,366. March 30, 1869. Schmidt, F. June 8, 1869. Chamberlin & Clawson, Feb. 8, 1870. Batcheler, I. W. Jan. 23, 1872.		
149,416 Schaff, Frederick C., April 7, 1874, . . . . .	186	99
References—Anderson, S., 91,589. June 22, 1869. Holske & Babbitt, 91,018. June 8, 1869.		
155,183 Dale, John H., and Henderer, Ed- mond, Sept. 22, 1874, . . . . .	186	99
References—Gaffey, 137,431. April 1, 1873.		
155,569 Bush, William, Oct. 6, 1874, . . . . .	187	99
References—Hubbard, C. B., & F. L., (Forfeited case.) Filed Feb. 1, 1869. Morrison, D., (Rejected case.) Filed Feb. 3, 1869. Crandall, J. A., (Forfeited case.) Filed Nov. 21, 1866.		
159,584 Knight, Walter, Feb. 9, 1875, . . . . .	187	99
References—Buschmann, 95,648. Oct. 12, 1869. Nye & Hathaway, (Rejected case.) Filed March 9, 1869. Meredith, F. A., (Forfeited case.) Filed Oct. 8, 1861. May, 109,644. Nov. 29, 1870. Forsyth, 101,993. April 19, 1870.		
178,066 Laurence, R. Walcot, May 30, 1876, . . . . .	187	99
References—Bush, 164,902. June 29, 1875.		

- Beck, 86,495. Feb. 2, 1869.  
Kilner & Simmons, 103,895. June 7, 1870.
- 194,681 Higgins, James, and Traynor,  
Patrick, Aug. 28, 1877, . . . . . 187 99
- References—Bottom, Sept. 29, 1864.  
Cutter, 83,662. Nov. 3, 1868.  
Robinson, 86,251. Jan. 26, 1869.  
Garder & Trageser, 87,769. March 16,  
1869.
- 194,870 Hancock, Warren H., Sept. 4,  
1877, . . . . . 188 99
- References—Blanchard, Dec. 28, 1825.  
Jones, 17,970. Aug. 11, 1857.  
Olmsted, 142,504. Sept. 2, 1873.
- 201,179 Higley, Eben N., March 12,  
1878, . . . . . 188 99
- References—Butterfield, 91,602. June 22, 1869.
- 206,020 Hollweg, Julius H., July 16, 1878, 188 100
- References—Clapham, 115,280. May 30, 1871.
- 208,876 Zoebel, Johan A., Oct. 8, 1878, . . . 188 100
- References—Bodel et al., 169,774. Nov. 9, 1875.
- 210,435 Root, John B., Dec. 3, 1878, . . . 189 100
- No references.
- 212,884 Baltz, Henry W., Sr., March 4,  
1879, . . . . . 189 100
- References—Butterfield, 91,602. June 22, 1869.  
Rathman & Johnson, 90,677. June 1,  
1869.  
Scharf, 202,056. April 2, 1878.
- 213,109 Hinckley, Hermon, and Culver,  
Newton H., March 11, 1879, . . . 189 100
- References—McClure, 88,889. April 13, 1869.  
Crandall, 79,553. July 7, 1868.
- 217,535 Ing尔斯, Roswell R., July 15,  
1879, . . . . . 189 100
- References—Hong, 179,454. July 4, 1876.  
Howe, 203,704. May 14, 1878.
- 218,968 Higham, Enos T., Aug. 26, 1879, 190 100
- References—Clark, 94,565. Sept. 7, 1869.  
Rich, July 22, 1834.  
Way, 71,561. Nov. 26, 1867.
- 222,022 Denham, Perry, Nov. 25, 1879, 190 100
- References—Elder, 99,421. Feb. 1, 1870.
- 222,779 Gilbert, James W., Dec. 23, 1879, 190 100
- References—Hoeppler, 64,418. May 7, 1867.  
Cope, 4,900. Dec. 22, 1846.
- 225,760 Overstreet, William, March 23,  
1880, . . . . . 190 100
- References—Lewis, 204,674. June 11, 1878.  
Boris, 90,489. May 25, 1869.
- 225,771 Teece, Robert W., March 23, 1880, 191 100
- References—Haynes, 98,592. Jan. 4, 1870.  
Bolton, Sept. 29, 1804.
- 229,500 Unzicker, Otto, June 29, 1880, 191 101
- References—Haynes, 98,592. Jan. 4, 1870.  
Fowler, 114,282. May 2, 1871.
- 232,825 Johnson, Alford C., Oct. 5, 1880, 191 101
- References—Schneider, 157,547. Dec. 8, 1874.
- 233,903 Zeller, Thomas B., Nov. 2, 1880, 192 101
- No references.
- 242,252 Beger, Carl, May 31, 1881, 192 101
- References—Schmitt, 91,169. June 8, 1869.
- 245,012 Oldreive, Charles W., Aug. 2, 1881, 192 101
- No references.
- 245,499 Houff, William H., Aug. 9, 1881, 193 101
- References—Ackerman, 205,330. June 25, 1878.  
Higgins & Traynor, 104,681. Aug. 28, 1877.  
Morse, 92,991. July 27, 1869.  
Schneider, 157,547. Dec. 8, 1874.
- 246,682 Lorenzo, Ratti, Sept. 6, 1881, 193 101
- References—Hanchett et al., 109,408. Nov. 22, 1870
- 247,156 Bridgeman, Henry C., Sept. 20,  
1881, . . . . . 193 101
- References—Guy, 93,433. Aug. 10, 1869.  
Laurence, 178,606. May 30, 1876.  
Knight, 159,584. Feb. 9, 1875.
- 258,447 Lowrey, John M., May 23, 1882, 194 102
- References—Schluder, 209,083. Oct. 15, 1878.  
Nislo-duff, 102,423. April 26, 1870.  
Menuez, 201,265. March 12, 1878.
- 264,674 Edmonds, John A., Sept. 19, 1882, 194 102
- References—Fowler, 227,571. May 11, 1880.  
Boltz, 212,884. March 4, 1879.  
Otto, 243,959. July 5, 1881.
- 265,722 Vreeland, Aaron, Oct. 10, 1882, 194 102
- References—Reynolds, 90,579. May 25, 1869.
- 265,751 Buddenberg, Henry C., Oct. 10,  
1882, . . . . . 194 102
- References—Perkins, 231,609. Aug. 24, 1880.
- 274,190 Holloway, Charles T., March 20,  
1883, . . . . . 195 102
- No references.
- 279,541 Cox, Lorenzo D., June 19, 1883, 195 102
- References—1,280 of 1863. English.
- 280,473 Hendrickson, Zachariah, July 3,  
1883, . . . . . 195 102
- References—Winslow, 235,925. Dec. 28, 1880.  
Barr, 94,992. Sept. 21, 1869.
- 296,680 Crowley, Daniel, April 8, 1884, 196 102
- References—Maus, 281,896. July 24, 1883.  
Emerson, 99,546. Feb. 8, 1870.  
Otto, 243,959. July 5, 1881.  
5,253 of 1881. English.  
1,859 of 1882. “  
Price, 243,346. June 21, 1881.  
Bacon, 185,660. Dec. 26, 1876.  
Sanderson, 181,541. Aug. 29, 1876.  
Talcott, 43,238. June 21, 1864.
- 296,936 Davies, Thomas A., April 15, 1884, 196 103
- References—French, 224,415. Feb. 10, 1880.  
Zoebel, 208,876. Oct. 8, 1878.
- 296,937 Davies, Thomas A., April 15, 1884, 196 103
- No references.
- 298,994 McMahon, Matthias F., May 20,  
1884, . . . . . 197 103
- References—Lowe, 99,006. Jan. 25, 1870.  
Hollweg, 206,020. July 16, 1878.
- 302,090 Bernhard, Charles, July 15, 1884, 197 103
- References—Gardner & Trageser, 89,769. March 16, 1869.  
Chase, 53,572. April 3, 1866.  
Crandall, 92,273. July 6, 1860.  
Pancher, 227,740. May 18, 1880.  
Parsons, 202,665. April 23, 1878.  
Huntington, 90,546. May 25, 1869.  
Atherton, 92,689. July 20, 1869.
- 305,061 Ellis, Robert F., and Norman,  
Cornelius A., Sept. 16, 1884, . . . 198 103
- References—Holloway, 274,196. March 20, 1883.
- 318,725 Hall, Luther, May 26, 1885, 198 103
- No references.

- | P. C.   | P. C.  |
|---|--|
| 319,682 Dickey, Lindsey, June 9, 1885, 199 103                              | 376,051 Steel, Robert, Jan. 3, 1888, 207 106                   |
| References—Grubbs, 228,737. Oct. 25, 1881.                                  | References—Crandall, 99,166. Jan. 25, 1870.                    |
| 322,406 Babcock, D. Marshall, July 21, 1885, . . . . . 199 104              | 381,504 Mullins, Richard, April 17, 1888, 207 106              |
| References—Allen, 223,691. Jan. 20, 1880.                                   | No references.   |
| Spring, 90,934. May 11, 1869.   | 388,416 Hockett, Pleasant, Aug. 28, 1888, 207 106              |
| Long, 281,091. July 10, 1883.   | No references.   |
| Rood, 94,842. Sept. 14, 1869.   | 388,963 Gallagher, Patrick, Sept. 4, 1888, 208 106             |
| Joule, 216,190. June 3, 1879.   | References—Allgaier, 89,964. May 11, 1869.                     |
| 329,755 McIntosh, Peter E., Nov. 3, 1885, 201 104                           | Grahsler, 287,825. Nov. 6, 1883.                               |
| References—Sawhill, 93,751. Aug. 17, 1869.                                  | Janson, 115,212. May 23, 1871.                                 |
| Giles, 252,455. Jan. 17, 1882.  | Latta, 377,204. Jan. 31, 1888.                                 |
| Libbey, 88,492. March 30, 1869.   |  |
| 332,005 Roper, Beverly, Dec. 8, 1885, . . . . . 201 104                     | 390,174 Lambert, Robert B., Sept. 25, 1888, . . . . . 208 106  |
| References—Bodel et al., 169,774. Nov. 9, 1875.                             | No references.   |
| Richard, 252,329. Jan. 17, 1882.  | 394,429 Yingst, Cyrus, Dec. 11, 1888, . . . . . 209 106        |
| 3,660 of 1882. English.   | References—Uster, 249,122. Nov. 1, 1881.                       |
| Giles, 236,573. Jan. 11, 1881.  | Thompson, 90,797. June 1, 1869.                                |
| Hinckley & Culver, 213,109. March 11, 1879.                                 | Grahsler, 287,825. Nov. 6, 1883.                               |
| Busch, 155,569. Oct. 6, 1874.   | Allgaier, 89,964. May 11, 1869.                                |
| Ruggles, 217,241. July 8, 1879.   |  |
| Singer, 4,155 of 1883. English.   | 397,638 Gallagher, Patrick, Feb. 12, 1889, 210 107             |
| 333,268 Weber, Casper, Dec. 29, 1885, . . . . . 202 104                     | References—McClure, 144,551. Nov. 11, 1873.                    |
| References—Vosmer, 309,667. Dec. 23, 1884.                                  | Nowak, 152,166. June 16, 1874.                                 |
| 336,226 Funk, John B., Feb. 16, 1886, . . . . . 202 104                     | Buchanan, 199,499. June 22, 1878.                              |
| References—Volk, 97,837. Dec. 14, 1869.                                     | Kochensperger, 65,236. May 28, 1867.                           |
| Sawhill, 93,751. Aug. 17, 1869.   | Gallagher, 388,963. Sept. 4, 1888.                             |
| Way, 71,562. Nov. 26, 1867.   |  |
| Fancher, 227,746. May 18, 1880.   | 402,812 Draper, John, May 7, 1889, . . . . . 210 107           |
| Bridgeman, 247,156. Sept. 20, 1881.   | References—Tripler & Roff, 230,838. Aug. 3, 1880.              |
| Rood, 94,842. Sept. 14, 1869.   | French, 224,415. Feb. 10, 1880.                                |
| McCall, 280,054. June 26, 1883.   | Elliott, 288,219. Nov. 13, 1883.                               |
| Serrall, 87,713. March 9, 1869.   |  |
| Deering, 309,930. Dec. 30, 1884.  | 413,104 Saxton, Daniel W., Oct. 15, 1889, 210 107              |
| Reinhart, 95,515. Oct. 5, 1869.   | No references.   |
| 341,911 Houk, Amos, May 18, 1886, . . . . . 203 104                         | 414,046 Huggins, Robert T., Oct., 29, 1889, 222 96             |
| References—Fancher, 227,746. May 18, 1880.                                  | References—Edwards, 256,303. April 11, 1882.                   |
| Coleman, 95,325. Sept. 28, 1869.  | Candler & Whitehead, 260,840. July 11, 1882.                   |
| 4,842 of 1879. English.   |  |
| Lewis, 204,674. June 11, 1878.  | 424,986 Hoyt, Clarence P., April 8, 1890, 199 107              |
| White, 269,609. Dec. 26, 1882.  | References—Pullen, 236,454. Jan. 11, 1881.                     |
| 349,145 Depuy, Martin M., and William B., Sept. 14, 1886, . . . . . 203 104 | Edwards, 256,303. April 11, 1882.                              |
| No references.  | Van Meter & Hesser, 261,411. July 18, 1882.                    |
| 361,341 Witt, Julius, April 19, 1887, 203 104                               | 426,518 Yingst, Cyrus, April 29, 1890, 200 107                 |
| No references.  | References—Wolkill, 92,554. July 13, 1869.                     |
| 361,354 Estlow, Francis R., April 19, 1887, 204 105                         | Ferguson, 88,151. March 23, 1869.                              |
| No references.  | Overman, 257,512. May 9, 1882.                                 |
| 368,167 Powell, James C., Aug. 9, 1887, 205 105                             | Fancher, 227,746. May 18, 1880.                                |
| References—Wortman, 93,030. July 27, 1869.                                  | Buchanan, 199,409. Jan. 22, 1878.                              |
| Giles, 236,573. Jan. 11, 1881.  | Seagrave, 169,302. Oct. 26, 1875.                              |
| Straight, 106,969. Aug. 30, 1870.   | 3,570 of 1869. English.  |
| Crowther, 218,039. Aug. 26, 1879.   |  |
| Moran, 235,552. Dec. 14, 1880.  | 431,060 Kenney, Thomas M., July 1, 1890, 210 108               |
| 368,607 Pearce, Benjamin M., Aug. 23, 1887, . . . . . 205 105               | No references.   |
| References—Allgaier, 89,964. March 11, 1869.                                | 431,061 Kenney, Thomas M., July 1, 1890, 211 108               |
| Grahsler, 287,825. Nov. 6, 1883.  | No references.   |
| Johnson, 232,825. Oct. 5, 1880.   |  |
| 372,106 Bayer, Frank J., Oct. 25, 1887, 206 105                             | 433,202 Herrick, John I., July 29, 1890, 211 108               |
| References—Grahsler, 287,825. Nov. 9, 1883.                                 | References—Neale, 98,092. Dec. 21, 1869.                       |
| Zeller, 233,903. Nov. 2, 1880.  | 3,259 of 1864. English.  |
| Wolfkill, 92,554. July 13, 1860.  | Gill & Alexander, 227,685. May 18, 1880.                       |
| Gardner & Trageser, 87,709. March 16, 1869.                                 | Andrews, 310,868. Jan. 20, 1885.                               |
| 373,980 Horn, David, Nov. 29, 1887, 206 105                                 | Vossmer, 309,667. Dec. 23, 1884.                               |
| References—Gilbert, 222,779. Dec. 23, 1879.                                 | Bernhard, 302,090. July 6, 1884.                               |
| Overstreet, 225,760. March 23, 1880.  |  |
| Scott, 142,285. Aug. 26, 1873.  | 433,720 Chace, Albert F., Aug. 5, 1890, 211 108                |
|   | References—Hanchett et al., 109,408. Nov. 22, 1870.            |
|   | Lambert, 390,174. Sept. 25, 1888.                              |
|   | Uznicker, 257,415. May 2, 1882.                                |
|   | Combs, 93,997. Aug. 24, 1869.                                  |
|   | Pesenecker, 296,776. April 15, 1884.                           |
|   | 433,852 Claussen, Alexander E., Aug. 5, 1890, . . . . . 223 97 |
|   | References—Reinhart, 95,515. Oct. 5, 1869.                     |

<i>P. C.</i>	<i>P. C.</i>
435,730 Brooks, John D., Sept. 2, 1890, 212 108 References—Bown, 294,753. March 11, 1884.	236,572 Giles, William W., Jan. 11, 1881, 216 94 References—Reinhart, 95,515. Oct. 5, 1869. Maltby, 110,657. Dec. 13, 1870. Ferguson, 88,151. March 23, 1869. Ruggles, 217,241. July 8, 1879. Wood, 85,501. Dec. 29, 1868. Bushmann, 95,648. Oct. 12, 1869.
439,382 Bryden, William L., Oct. 28, 1890, 212 108 References—Emerson, 99,546. Feb. 8, 1870. Barr, 94,992. Sept. 21, 1869. Nislo-duff, 102,423. April 26, 1870. Grahser, 287,825. Nov. 6, 1883.	236,573 Giles, William W., Jan. 11, 1881, 217 94 References—Gill & Alexander, 227,685. May 18, 1880. Joule, 216,190. June 3, 1879. Rourk, 99,310. May 18, 1869. Crother & Bergeron, 159,564. Feb. 9, 1875. Barr, 30,192. Oct. 2, 1866. Trautmann, 229,562. July 6, 1880. Allen, 223,691. Jan. 20, 1880. Gregg, 125,451. April 9, 1872. McClare, 154,551. Nov. 11, 1873. Trautmann, 232,620. Sept. 28, 1880. Thompson & Marden, 86,787. Feb. 9, 1869.
440,442 Searle, Frank, Nov. 11, 1890, . 213 108 References—Crowley, 367,925. July 26, 1887. Gilbert, 222,779. Dec. 23, 1870. Horne, 37,3,868. Nov. 29, 1887. Crandall, 99,166. Jan. 25, 1870.	248,531 Trautmann, Charles M., Oct. 18, 1881, . . . . . 217 94 No references.
442,240 Schulze, Johann L. F., Dec. 9, 1890, . . . . . 223 97 References—Grahser, 287,825. Nov. 6, 1883. Martin, 340,340. April 20, 1886. Post, 285,513. Sept. 25, 1883.	260,840 Candler, Claud H., and Whitehead, James, July 11, 1882, . . . . . 218 95 References—Hanchett et al., 109,408. Nov. 22, 1870. Lorenzo, 246,682. Sept. 6, 1881. Schnitt, 91,169. Jun. 8, 1869.
443,292 Mitchell, Joseph, Dec. 23, 1890, 213 109 References—Ellis, 280,290. June 26, 1883. Holland, 285,035. Sept. 18, 1883. Estlow, 361,354. April 19, 1887. Kramer, 355,324. Jan. 4, 1887. Buzzell, 82,690. Oct. 6, 1868.	271,800 Cox, John J., Feb. 6, 1883, . . . . . 218 95 References—Brown, 60,335. Dec. 11, 1866. Bridgman, 247,156. Sept. 20, 1881. Ferguson, 88,151. March 23, 1869.
Tricycles. Combined Foot and Hand Power. 85,640 Callaghan, Cornelius, Jan. 5, 1869, 214 93 No references.	280,299 Ellis, Joseph L., June 26, 1883, 218 95 No references.
89,960 Wilson, Benjamin F., May 11, 1869, 214 93 No references.	294,753 Bown, Albert, March 11, 1884, 219 95 References—Goodman, 44,256. Sept. 13, 1864. Trautmann, 229,562. July 6, 1880.
90,782 Reed, George P., June 1, 1869, . 214 93 No references.	295,333 Beaupain, Louis, March 18, 1884, 219 95 References—Woerd, 288,537. Nov. 13, 1883. Schaneck, 289,151. Nov. 27, 1883.
91,702 Beaumont, John C., June 22, 1869, 215 93 References—White, John J., 88,930. April 17, 1869. Beck, Joseph, 86,495. Feb. 2, 1869. McKaranian, William, 87,579. March 9, 1869. Doty & Dickinson, 89,977. May 11, 1869.	314,236 Gormley, Herbert J., March 24, 1885, . . . . . 219 95 References—Buchanan, 109,409. Jan. 22, 1878. Silver, 250,589. Dec. 6, 1881. Tripler & Roff, 230,838. Aug. 3, 1880.
95,648 Buschman, Victor H., Oct. 12, 1869, . . . . . 215 93 References—Beck, Joseph, 86,495. Feb. 2, 1869. Way, Charles A., 71,561. Nov. 26, 1867.	320,678 Paessler, Theophilus H., June 23, 1885, . . . . . 220 95 No references.
169,774 Bodel, Louis G., Masse, Jacques, and Webeter, William, Nov. 9, 1875, 215 93 No references.	329,362 Chapman, Herman L., Oct. 27, 1885, . . . . . 220 96 References—Giles, 236,573. Jan. 11, 1881. Trautmann, 232,620. Sept. 8, 1880. Gunn, 233,671. Oct. 26, 1880.
177,854 Knudson, Adolph, May 23, 1876, 215 94 References—Sewell, 52,328. Jan. 30, 1866. McCullly, 87,275. Feb. 23, 1869. Baldwin & Miller, 90,220. May 18, 1869. Armando, 94,990. Sept. 21, 1869.	367,025 Crowley, Daniel, July 26, 1887, 222 96 References—Von Palström, (R.) 10,625. July 14, 1885. Davies, 296,036. April 15, 1884. Tripler & Roff, 230,838. Aug. 3, 1880. Morgan, 337,975. March 16, 1886. Edwards, 256,503. April 11, 1882. 8,698 of 1884. English 7,670 of 1884. "
215,876 Browne, James E., May 27, 1879, 216 94 References—Watt, 203,968. May 21, 1878. Lowden, 96,128. Oct. 26, 1869.	340,340 Martin, Samuel, April 20, 1886, 221 96 No references.
225,310 Vreeland, Aaron, May 9, 1880, 216 94 References—Maltby, 123,571. Feb. 13, 1872. Hollweg, 206,020. July 16, 1878. Warpenberg, 182,045. Sept. 12, 1876. Griffiths, 130,712. Aug. 20, 1872. Bush, 164,902. June 29, 1875. Clime, 125,273. April 2, 1872. McDougall, 89,783. May 4, 1869. Hitt, 158,212. Dec. 29, 1874. Hinckley & Culver, 213,109. March 11, 1879.	348,325 Hamshaw, Charles W., Aug. 31, 1886, . . . . . 222 96 No references.
	414,046 Huggins, Robert T., Oct. 29, 1889, 222 96 References—Edwards, 256,303. April 11, 1882. Candler & Whitehead, 200,840. July 11, 1882.

- |  | P. C.   |
|--|---------|
| 433,852 Claussen, Alexander E., Aug. 5,<br>1890, . . . . .   | 223 97  |
| References—Reinhart, 95,515. Oct. 5, 1869.   |         |
| 442,240 Schulze, Johann L. F., Dec. 9,<br>1890, . . . . .  | 223 97  |
| References—Grasher, 287,825. Nov. 6, 1883.<br>Martin, 340,340. April 20, 1886.<br>Post, 285,513. Sept. 25, 1883.   |         |
| <br><b>Tricycles With Two or More Seats.</b>   |         |
| 86,405 Irwin, J. H., Feb. 2, 1869, 224 156   |         |
| No references.   |         |
| 86,856 Monroe, Joshua, Feb. 9, 1869, 224 156   |         |
| No references.   |         |
| 88,889 McCleave, Frederick W., April 13,<br>1869, . . . . .  | 224 156 |
| No references.   |         |
| 90,656 Frankel, William, June 1, 1869, 225 156   |         |
| References—Evadrich, 1,213 of 1864. English<br>Hunt, D. Jr., 82,319. Sept. 22, 1868.<br>Cass, C. W. March 30, 1869.  |         |
| 92,689 Atherton, Daniel W., July 20, 1869, 225 156   |         |
| No references.   |         |
| 93,030 Wortmann, Simon, July 27, 1869, 225 156   |         |
| No references.   |         |
| 93,433 Guy, C. B., Aug. 10, 1869, 225 156  |         |
| No references.   |         |
| 94,842 Rood, M. L., Sept. 14, 1869, 226 156  |         |
| References—Laubach, W. H., 86,235. Jan. 26, 1869.  |         |
| 95,515 Reinhart, John, Oct. 5, 1869, 226 157   |         |
| References—Christian, A., & Reinhart, J., 87,245. Feb.<br>23, 1869.<br>Goodman, J., 44,256. Sept. 13, 1864.<br>Robinson, Dan T., 86,251. Jan. 26, 1869.  |         |
| 134,989 Hoffmire, John E., Jan. 21, 1873, 226 157  |         |
| References—Irvine, J. H., 86,406. Feb. 2, 1869.<br>Lawrence, H. C., 89,543. April 27, 1869.<br>Butler, H. P., (Rejected case.) Filed April<br>13, 1869.<br>Miller, John M., (Rejected case.) Filed<br>Jan. 15, 1869.   |         |
| 194,980 Whitehead, Edward, Sept. 11,<br>1877, . . . . .  | 227 157 |
| No references.   |         |
| 252,504 Otto Edouard C. F., Jan. 17, 1882, 227 157   |         |
| References—Hoffmire, 134,989. Jan. 21, 1873.<br>Hosea, 228,996. June 22, 1880.   |         |
| 261,395 Sloan Benjamin F., July 18, 1882, 228 157  |         |
| References—Starley, 3,388 of 1877. English.<br>Haussknecht, 99,567. Feb. 8, 1870.<br>Rood, 94,842. Sept. 14, 1869.<br>Sawyer, 222,537. Dec. 9, 1879.<br>Huntsman, 86,545. Feb. 2, 1869.<br>Hemming, 92,528. July 13, 1869.   |         |
| 264,855 Burley Franklin G., Sept. 26,<br>1882, . . . . .   | 228 157 |
| References—Brown, 754 of 1870. English.<br>“The Velocipede,” 1869. No. 16 by J. F.<br>B. Loudon.   |         |
| 285,513 Post, John W. and Charles F., Sept.<br>25, 1883, . . . . .   | 229 157 |
| References—Clarke, 1,649 of 1869. English.<br>Hopwood, 245,829. Aug. 16, 1881.<br>Overman, 257,375. May 2, 1882.<br>Seagrave, 169,302. Oct. 26, 1875.<br>Palmer, 126,900. May 21, 1872.  |         |
| <br><b>Harrington, 3,849 of 1879. English.</b>   |         |
| Lewis, 3,090 of 1877.  |         |
| Sloan, 261,395. July 18, 1882.   |         |
| Edwards, 256,303. April 11, 1882.  |         |
| Crandall, 160,575. March 9, 1875.  |         |
| Hodge, 9,054. June 22, 1852.   |         |
| Hanlon, 79,654. July 7, 1868.<br>924 of 1881. English.   |         |
| 288,821 Larroque, Jean J. A., Nov. 20,<br>1883, . . . . .  | 229 158 |
| References—Handy & Anthony, 274,762. March 27,<br>1883.  |         |
| Fowler, 240,990. May 3, 1881.<br>1,274 of 1879. English.<br>2,164 of 1880.   |         |
| 295,150 Crowley, Daniel, March 18, 1884, 230 158   |         |
| References—Webster, 254,181. Feb. 28, 1882.<br>2,290 of 1880. English.<br>3,934 of 1879.<br>Sarber, 76,541. April 7, 1868.<br>2,164 of 1879. English.<br>Ward, 88,683. April 6, 1869.<br>McMillan, 91,035. June 8, 1869.<br>Greene, Dyer, 91,535. June 22, 1869.<br>Pickering, 85,507. March 30, 1869. |         |
| 295,364 Davidson, George L. O., March 18,<br>1884, . . . . .   | 230 158 |
| References—4,000 of 1879. English.   |         |
| 301,702 Fay, Patrick J., July 8, 1884, . . . . .   | 230 158 |
| References—Lawrence, 89,543. April 27, 1869.<br>Dopp & Wolff, 297,238. April 22, 1884.   |         |
| 302,098 Cardona, Joseph, July 15, 1884, 231 158  |         |
| References—Perkins, 231,609. Aug. 24, 1880.<br>Reinhart, 95,515. Oct. 5, 1869.   |         |
| 305,690 Humber, Thomas, Sept. 23, 1884, 231 158  |         |
| References—4,917 of 1881. English.   |         |
| 305,968 Sell, Edgar E., Sept. 30, 1884, . . . . .  | 232 158 |
| References—4,917 of 1881. English.<br>1,425 of 1882. “   |         |
| 310,998 Henning, Carl G. E., Jan. 20, 1885, 233 159  |         |
| References—Smith, 93,016. Feb. 27, 1869.<br>Larroque, 288,821. Nov. 20, 1883.  |         |
| 10,575 } Henning, Carl G. E., March 24,<br>310,998 } 1885, (R.) . . . . .  | 233 159 |
| References—Dutrow, 295,861. March 25, 1884.  |         |
| 316,146 Henning, Carl G. E., April 21,<br>1885, . . . . .  | 233 159 |
| References—Whitehead, 88,426. March 30, 1869.  |         |
| 317,395 Mackie, Frank A., May 5, 1885, 233 159   |         |
| No references.   |         |
| 320,677 Paessler, Theophilus H., June 23,<br>1885, . . . . .   | 234 159 |
| References—Blake, 84,163. Nov. 17, 1868.   |         |
| 323,052 Matteson, Jefferson W., July 28,<br>1885, . . . . .  | 235 159 |
| References—Seagrave, 169,302. Oct. 26, 1875.<br>Holloway, 274,196. March 20, 1883.<br>Whiting, 250,316. Nov. 29, 1881.<br>Handy & Anthony, 274,762. March 27,<br>1883.   |         |
| 324,317 Harrington, John, Aug. 11, 1885, 235 160   |         |
| References—Humber, 305,690. Sept. 23, 1884.  |         |
| 327,397 King, Homer A., Sept. 29, 1885, 236 160  |         |
| References—Steel, 211,116. Jan. 7, 1879.<br>Landis, 29,288. July 24, 1860.<br>Dutrow, 277,246. May 8, 1883.  |         |
| 327,954 King, Homer A., Oct. 6, 1885, 236 160  |         |
| References—Tyler, 94,927. Sept. 4, 1869.   |         |

- | P. C.  | P. C.   |
|--|---|
| 327,979 LaCasse Henry, Oct. 6, 1885, . . . 237 160   | Schröder, 319,329. June 2, 1885.<br>10,388. German.<br>Cline, 315,093. April 7, 1885.   |
| References—Fay, 301,702. July 8, 1884.<br>Unzicker, 242,490. June 7, 1881.<br>Higley, 201,179. March 12, 1878.   |   |
| 328,761 Cilley John H., Oct. 20, 1885, . . . 237 160   | 365,488 Powell, George M., June 28, 1887, 244 164   |
| References—Humber, 305,690. Sept. 23, 1884.<br>3,892 of 1880. English.   | References—Clearsley, 284,612. Sept. 11, 1883.<br>Watts, 275,955. April 17, 1883.<br>Paddock, 278,355. May 29, 1883.<br>McKenzie, 242,212. May 31, 1881.<br>Asbury, 285,946. Oct. 2, 1883.<br>Fishwick, 184,852. Nov. 28, 1876.<br>Hinckling, 1,647 of 1879. English.<br>Cartmell & Day, 8,703 of 1884. English.<br>Fowler, 247,754. Oct. 4, 1881.<br>Brown, 264,133. Sept. 12, 1882.<br>Baldwin & Miller, 90,220. May 18, 1869.<br>2,879 of 1884. English.<br>3,384 of 1869. "<br>2,202 of 1881. "<br>518 of 1882. "<br>3,392 of 1878. "<br>4,829 of 1882. " |
| 334,839 Baines, Hugh, Jan. 26, 1886, . . . 238 161   | 366,690 Schonning, Charles J., July 19, 1887, . . . . . 244 164   |
| References—Lowden, 66,128. Oct. 26, 1869.<br>Fay, 301,702. July 8, 1884.<br>Racine, 309,740. Dec. 23, 1884.<br>Whiting, 250,316. Nov. 29, 1881.  | References—Martin, 340,340. April 20, 1886.<br>Gibbons & Meneely, 351,972. Nov. 2, 1886.<br>Newton, 1,859 of 1882. English.<br>Orto, 250,660. Dec. 13, 1881.<br>Huntington, 90,546. May 25, 1869.<br>White, 88,930. April 13, 1869.   |
| 341,383 King, Homer A., May 4, 1886, . . . 239 161   | 372,031 La Casse, Henry, Oct. 25, 1887, 245 164   |
| References—Soule, 90,470. May 25, 1869.<br>Lawrence, 92,160. July 13, 1869.<br>Wyndham, 106,529. Aug. 16, 1870.<br>Crane, 258,559. May 30, 1882.<br>King, 327,954. Oct. 6, 1885.<br>Fowler, 240,990. May 3, 1881.<br>1,256 of 1880. English.<br>1,100 of 1881. "<br>911 of 1881. "   | References—Watt, 203,968. May 21, 1878.<br>Zimmerman, 322,076. Nov. 6, 1886.<br>Weston & Smith, 357,110. Feb. 1, 1887.<br>Unzicker, 257,415. May 2, 1882.   |
| 346,667 Maret, John C., Aug. 3, 1886, 240 162  | 372,429 O'Brien, Thomas, Nov. 1, 1887, 246 165  |
| References—1,507 of 1880. English.<br>6,767 of 1884. "<br>3,564 of 1879. "<br>349 of 1884. "<br>1,647 of 1879. "<br>Hanlon, (R.) 3,297. Feb. 9, 1869.<br>5,253 of 1881. English.<br>Shirreff, 243,166. June 21, 1881.  | No references.  |
| 347,503 O'Brien, Thomas, Aug. 17, 1886, 240 162  | 375,755 Kidder, Wellington P., Jan. 3, 1888, . . . . . 247 165  |
| References—O'Brien, 287,566. Oct. 30, 1883.  | References—Wallace, 312,411. Feb. 17, 1885.<br>Keaton & Bonfils, 185,136. Jan. 9, 1877.<br>3,890 of 1885. English.  |
| 349,800 King, Homer A., Sept. 28, 1886, 241 162  | 377,566 Latta, Emmit G., Feb. 7, 1888, 247 165  |
| References—Buell, 90,723. June 1, 1869.<br>Pressey, 234,722. Nov. 23, 1880.<br>Crane, 258,559. May 30, 1882.<br>King, 341,483. May 4, 1880.<br>Smith, 211,808. Feb. 4, 1879.<br>4,917 of 1881. English.<br>Kelley, 321,932. July 7, 1885.<br>Lorenz, 298,217. May 4, 1884.<br>Soule, 90,470. May 25, 1869.<br>Latta, 343,959. June 15, 1886.   | References—8,101 of 1884. English.<br>16,998 of 1884. "<br>Weston & Smith, 357,110. Feb. 1, 1887.<br>13,818 of 1885. English.   |
| 352,076 Zimmerman, John C., Nov. 2, 1886, . . . . . 242 163  | 380,495 Latta, Emmit G., April 3, 1888, 248 166   |
| References—Overman, 329,850. Nov. 3, 1885.   | References—4,913 of 1885. English.<br>12,604 of 1884. "<br>13,481 of 1884. "<br>6,684 of 1884. "<br>9,234 of 1886. "<br>10,885 of 1885. "<br>4,492 of 1881. "<br>10,998 of 1884. "<br>Latta, 360,101. May 29, 1887.<br>Henning, 316,146. April 21, 1885.<br>Weber et al., 321,162. June 30, 1885.<br>Scharf, 149,416. April 7, 1874.  |
| 357,110 Weston, Irving A., and Smith, Willard A., Feb. 1, 1887, . . . . . 242 163  | 382,351 Cherry, Matthew A., May 8, 1888, . . . . . 249 166  |
| References—Gibbons, 340,109. April 20, 1886.<br>L'renz, 298,217. May 6, 1884.<br>Warwick, 329,517. Nov. 3, 1885.<br>Repetti, 96,963. Nov. 16, 1869.<br>Perkins, 309,086. Dec. 9, 1884.<br>Rich, 350,994. Oct. 19, 1886.<br>Schank, 289,151. Nov. 27, 1883.<br>Gormuley, 314,236. March 24, 1885.<br>Weber et al., 321,162. June 30, 1885.<br>2,315 of 1880. English.<br>1,647 of 1879. " | References—Tyler, 94,927. Sept. 14, 1869.   |
| 357,138 Addicks, William H., Feb. 1, 1887, 242 163   | 382,837 Singer, George, and Lea, Richard II., May 1888, . . . . . 249 166   |
| No references.   | References—Crane, 258,559. May 30, 1882.<br>Marble, 328,499. Oct. 20, 1885.<br>Phillips, 350,980. Sept. 28, 1886.   |
| 358,730 Cilley, John H., March 1, 1887, 243 164  | 389,517 La Casse, Henry, Sept. 11, 1888, 250 166  |
| References—5,253 of 1881. English.<br>16,359 of 1884. "<br>4,837 of 1882. "  | References—Scharf, 149,416. April 7, 1874.<br>Atherton, 205,894. April 1, 1884.<br>3,756 of 1879. English.  |
| 361,530 Kramer, Camillo, April 19, 1887, 244 164   |   |
| References—Toennies, 319,351. June 2, 1885.  |   |

P.	C.	P.	C.		
391,947 Copeland, James S., Oct. 30, 1888,	250	168	88,759 Weston, James W., April 6, 1869,	258	90
References—14,529 of 1886. English.			No references.		
5,583 of 1883. "			90,774 Nielsen, Alfred, June 1, 1869,	259	90
2,549 of 1884. "			References—Ferguson, H. J., 88,151. March 23, 1869.		
13,985 of 1885. "			Mackenzie, P. W., 36,161. Aug. 12, 1862.		
2,444 of 1884. "			90,869 Piper, J. F., June 1, 1869,	259	90
14,529 of 1886. "			References—Goodrich, 1,213 of 1864. English.		
1,025 of 1885. "			Hunt, David, Jr., 82,319. Sept. 22, 1868.		
4,913 of 1885. "			Hawkins, John E., 86,153. Jan. 26, 1869.		
392,349 Latta, Emmet G., Nov. 6, 1888,	252	168	91,169 Schmitt, Frederick, June 8, 1869,	259	90
References—Latta, 377,294. Jan. 31, 1888.			References—Goodrich, 1,213 of 1864. English.		
O'Brien, 372,428. Nov. 1, 1887.			Simpson, John. Jan. 12, 1869.		
Pausby & Crowden, 316,649. April 28,			Mitchell, Aug. 26, 1859.		
1885.			94,990 Armando A., Sept. 21, 1869,	239	90
Cran, 258,559. May 30, 1882.			References—Goodrich, 1,213 of 1864. English.		
Mar in, 339,446. April 6, 1886.			Hunt, David, Jr., 82,319. Sept. 22, 1868.		
Foss, 302,329. July 22, 1884.			152,681 Phole, Charles R. M., June 30,	1874,	90
395,441 Jackson, Calvin, Jan. 1, 1889,	252	169	References—Piper, J. F., 90,869. June 1, 1869.		
References—Perkins, 284,475. Sept. 4, 1883.			Anderson, Samuel, 91,589. June 22, 1869.		
Rich, 350,995. Oct. 19, 1886.			159,564 Crother, Edwin, and Bergeron,		
Rankin, 89,341. April 27, 1869.			Michael, Feb. 9, 1875, . . . . . 260	90	
4,121 of 1881. English.			References—Cooke, 132,214. June 23, 1874.		
8,571 of 1886. "			Harper, 91,438. June 15, 1869.		
408,014 Jeffery, Thomas B., July 30, 1889,	254	170	233,396 Beeger, Karl, Oct. 19, 1880,	261	90
References—4,837 of 1882. English.			No references.		
9,256 of 1884. "			277,246 Dutrow, David E., May 8, 1883,	261	90
Smith, 105,266. July 12, 1870.			References—Landis, 29,288. July 24, 1866.		
Thompson, 217,027. July 1, 1879.			Cooke, 153,423. July 28, 1874.		
Simpson, 212,519. Feb. 18, 1879.			Cooke, 154,214. June 23, 1874.		
Latta, 294,640. March 4, 1884.			Ferres, 246,000. Aug. 23, 1881.		
408,624 Johnson, Gottfried, Aug. 6, 1889,	254	170	315,003 Clime, John C., April 7, 1885,	261	90
No references.			References—Borchardt, 203,582. May 14, 1878.		
416,493 Phillips, Walter, and Smith,			Hopkinson & Cook, 159,266. Feb. 2, 1875.		
Robert W., Dec. 3, 1889,	255	170	Wood, 270,501. Jan. 9, 1883.		
References—Donkel, 88,134. June 5, 1888.			Brown, 146,311. Jan. 13, 1874.		
Copeland, 385,666. July 10, 1888.			319,329 Schneider, Hippolyte, June 2,		
15,169 of 1886. English.			1885, . . . . . 261	91	
8,199 of 1887. "			No references.		
10,610 of 1885. "			355,324 Kramer, Camillo, Jan. 4, 1887,	262	91
Hillman, 247,643. Sept. 27, 1881.			References—Schneider, 319,329. June 2, 1885.		
Wallace, 312,411. Feb. 17, 1885.			Beaupain, 295,333. March 18, 1884.		
Pope, 373,850. Nov. 29, 1887.			Crother & Bergeron, 159,504. Feb. 9, 1875.		
14,427 of 1888. English.			Ellis, 280,299. June 26, 1883.		
421,100 Kramer, Camillo, Feb. 11, 1890,	256	171	Hotchkiss, 186,565. Jan. 23, 1877.		
References—Hornig, 191,145. May 22, 1877.			373,282 Frie, Hermanus, T., Nov. 15,		
10,388. German.			1887, . . . . . 262	91	
Warwick, 316,702. April 28, 1885.			No references.		
Armando, 94,990. Sept. 21, 1869.			406,148 Rullmann, John D., and Eckendorf,		
Regnier, 334,469. Jan. 19, 1886.			George, July 2, 1889, . . . . . 263	92	
Veedor, 239,629. April 5, 1881.			No references.		
Clark, 334,164. Jan. 12, 1886.			409,758 Schloemer, Gottfried, and Hausknecht, Eduard, Aug. 27, 1889,	264	92
452,541 Connor, Thomas R., and Thomas			References—Willits, 269,906. Jan. 2, 1883.		
D., May 19, 1891,	257	171	Schneider, 319,329. June 2, 1885.		
No references.			433,542 Schaefer, Peter, Aug. 5, 1890,	264	92
Tricycles, Oscillating Seats.			No references.		
82,319 Hunt, David, Jr., Sept. 22, 1868,	257	89	450,001 Carter, James, April 7, 1891,	265	93
No references.			References—Schnitt, 91,169. June 8, 1869.		
86,153 Hawkins, John E., Jan. 26, 1869,	257	89	Williams, 111,597. Feb. 7, 1871.		
References—Landis, E., 29,288. July 24, 1866.			Hoepner, 64,418. May 7, 1867.		
Mackenzie, P. W., 36,161. Aug. 12, 1862.			455,438 Golderer, Johann M., July 7, 1891,	265	93
88,347 Vander Waag, Johannes A., A.,			No references.		
March, 30, 1869,	257	89			
References—Longett, A., 36,160. Aug. 12, 1862.					
Goodrich, 1,213 of 1864. English.					
6,250 } Vander Waag, Johannes A., Jan.					
88,347 } 26, 1875, (R.)	258	90			
References—Goodrich, 1,213 of 1864. English.					
88,366 Case, J. M., March 30, 1869,	258	90			
References—Hoepner, F. G., 64,418. May 7, 1867.					
Goodrich, 1,213 of 1864. English.					

P.	C.	P.	C.		
456,989 Hanson, Andrew P., Aug. 4, 1891, . . . . .	266	93	351,972 Gibbons, John, and Meneely, Charles D., Nov. 2, 1886, . . . . .	274	87
References—Schloemer & Hausknecht, 409,758. Aug. 27, 1889.			References—Otto, 243,959. July 5, 1881.		
Schaefer, 433,542. Aug. 5, 1890.			352,885 Otto, Edward C. F., Nov. 16, 1886, . . . . .	275	88
Beer & Bond, 429,715. June 10, 1890.			References—2,202 of 1881. English. 13,585 of 1884. " 2,380 of 1884. " Fowler, 24,990. May 3, 1881.		
—			Otto, 5,433 of 1883. English.		
Tricycles, Two Wheels Abreast, Swing Seats.			353,935 Gibbons, John, and Meneely, Charles D., Dec. 7, 1886, . . . . .	275	88
86,495 Beck, Joseph, Feb. 2, 1869, . . . . .	266	84	References—Otto, 212,492. Feb. 18, 1879.		
No references.			Auld, 289,746. Dec. 4, 1883.		
87,579 McKerahan, William, March 9, 1869, . . . . .	267	85	Otto, 2,748 of 1877. English.		
No references.			Newton, 1,859 of 1882. "		
88,894 Mott, Thomas H., April 13, 1869, . . . . .	267	85	Griffith, 3,564 of 1883. "		
No references.			Buck, 331,113. Nov. 24, 1885.		
88,930 White, John J., April 13, 1869, . . . . .	267	85	356,028 Brown, Nathaniel, Jan. 11, 1887, . . . . .	276	88
References—Beck, 86,495. Feb. 2, 1869.			References—Crowley, 296,680. April 8, 1884.		
89,069 Parry, George T., April 20, 1869, . . . . .	268	85	363,360 Blossfeld, Emil, May 24, 1887, . . . . .	276	88
References—Beck, 86,495. Feb. 2, 1869.			References—Gibbons & Meneely, 351,972. Nov. 2, 1886.		
McKerahan, 87,579. March 9, 1869.			Valiquet, 308,862. Dec. 2, 1884.		
90,546 Huntington, Elon, May 25, 1869, . . . . .	268	85	Otto, 243,959. July 5, 1881.		
Letter not in the file. Lost.			369,017 Ludewigs, Otto, Aug. 30, 1887, . . . . .	277	89
94,565 Clark, William B., Sept. 7, 1869, . . . . .	268	85	References—Barr, 94,992. Sept. 21, 1879.		
No references.			Webster, 254,181. Feb. 27, 1882.		
105,739 Tarbox, Ephraim, July 26, 1870, . . . . .	269	85	Bridgeman, 247,156. Sept. 20, 1881.		
References—Clark, 94,565. Sept. 7, 1869.			Otto, 212,492. Feb. 18, 1879.		
130,712 Griffiths, George H., Aug. 20, 1872, . . . . .	269	85	3,394 of 1884. English.		
No references.			6,032 of 1882. "		
171,862 Reinhold, Franz J., Jan. 4, 1876, . . . . .	269	85	1,859 of 1882. "		
No references.			13,263 of 1885. "		
186,379 Stineman, William H. H., and Holloway, Charles T., Jan. 16, 1877, . . . . .	269	86	389,855 Rombauer, Robert J., Sept. 18, 1888, . . . . .	277	89
References—Hemming, 92,528. July 13, 1869.			References—Otto, 212,492. Feb. 18, 1879.		
212,492 Otto, Edouard, C. F., Feb. 18, 1879, . . . . .	270	86	Huntington, 90,456. May 25, 1869.		
References—Huntington, 90,546. May 25, 1869.			Mott, 88,894. April 13, 1869.		
Lawrence, 92,460. July 13, 1869.			White, 88,930. April 13, 1869.		
Crosby, 170,994. Dec. 14, 1875.			13,265 of 1885. English.		
Reinhold, 171,862. Jan. 4, 1876.			Bock, 331,113. Nov. 24, 1885.		
243,959 Otto, Edouard C. F., July 5, 1881, . . . . .	270	86	4,092 of 1883. English.		
References—Mackenzie, (R.), 7,818. July 31, 1877.			Fowler, 227,511. May 11, 1880.		
Otto, 212,492. Feb. 18, 1879.			396,854 Bowen, Richard E., Jan. 29, 1889, . . . . .	277	89
Moot, 88,894. April 13, 1869.			No references.		
250,960 Otto, Edouard C. F., Dec. 13, 1881, . . . . .	271	86	—		
References—Smith, 24,243. May 31, 1859.			Tricycles, Foot Propelled.		
Spadone, 208,431. Sept. 24, 1878.			30,192 Barr, Samuel W., Oct. 2, 1860, . . . . .	278	109
254,181 Webster, Maria, Feb. 28, 1882, . . . . .	272	86	References—Mitchell, Aug. 16, 1859.		
References—Otto, 212,492. Feb. 18, 1879.			Hodge, 9,054. June 22, 1852.		
286,593 Deputy, Jesse J., Oct. 16, 1883, . . . . .	272	86	Yosts, June 3, 1856.		
References—Hancock, 194,870. Sept. 4, 1877.			83,035 Bradford, Charles K., Oct. 13, 1868, . . . . .	278	109
Derrick, 223,119. Dec. 30, 1879.			References—Buzzell, S. D. 1851.		
Benton, 260,526. July 4, 1882.			Crandall, J. Dec. 10, 1853.		
304,023 Peck, Mason S., Aug. 26, 1884, . . . . .	272	87	86,251 Robinson, Daniel T., Jan. 26, 1869, . . . . .	279	110
No references.			No references.		
308,862 Valiquet, Louis P., Dec. 2, 1884, . . . . .	273	87	86,787 Thompson, Abraham D., and Marden, Jesse, Jr., Feb. 9, 1869, . . . . .	279	110
References—McKerahan, 87,579. March 9, 1869.			No references.		
Warner, 283,306. Aug. 14, 1883.			87,205 Samuels, Isaac, Feb. 23, 1869, . . . . .	279	110
Ahlert, 287,989. Nov. 6, 1883.			No references.		
313,490 Gibbons, John, March 10, 1885, . . . . .	273	87	87,630 Burns, Jabez, March 9, 1869, . . . . .	280	110
No references.			References—Hanlon, 79,654. July 7, 1868.		
331,113 Bock, Anton H., Nov. 24, 1885, . . . . .	273	87	Way, C. A. 71,501. Nov. 26, 1867.		
References—Oto, 212,492. Feb. 18, 1879.			Smead, E. A. Feb. 15, 1859.		

- 87,936 Hubbard, N. W., March 16, 1869, . . . . . 280 110  
 References—Blake, J. M. March 4, 1862.  
 Lewis, George. Aug. 2, 1864.  
 Way, Charles A., 71,561. Nov. 26, 1867.  
 Bradford, S. 3,035. Oct. 13, 1868.
- 88,151 Ferguson Henry J., March 23, 1869, . . . . . 280 110  
 No references.
- 88,286 Farrar Alonzo, March 30, 1869, . . . . . 281 110  
 References—Way, Charles C., 71,561. Nov. 26, 1867.  
 Bradford, C. K., 83,035. Oct. 13, 1868.
- 88,426 Whitehead, Edward, March 30, 1869, . . . . . 281 110  
 References—Longett, Alex., 36,160. Aug. 13, 1862.  
 Goodman, 44,256. Sept. 1, 1864.  
 Blake, E. K. W., 84,163. Nov. 17, 1865.  
 Barr, S. W., 30,192. Oct. 2, 1866.
- 88,750 Stickney, Charles W., April 6, 1869, . . . . . 281 110  
 References—Bogel, Henry, 35,583. June 17, 1862.  
 Quinn, William, 47,220. April 11, 1865.
- 88,872 Hill, W. S., April 13, 1869, . . . . . 281 110  
 References—Plumb, Zenas. Nov. 5, 1867.  
 Lazelle, W. H. Feb. 7, 1860.
- 89,047 House, James A., and Snyder, Williamson B., April 20, 1869, . . . . . 282 111  
 References—Hanlon Bros., (R.) 3,297. Feb. 9, 1860.  
 Hanlon, William, 86,834. Feb. 9, 1869.
- 89,235 O'Neill, Arthur, April 20, 1869, . . . . . 282 111  
 No references.
- 89,341 Rankin, James, April 27, 1869, . . . . . 282 111  
 References—Callaghan, Cornelius, 85,640. Jan. 5, 1869.  
 Barr, S. W., 30,192. Oct. 2, 1860.  
 Williams, Turner. July 17, 1865.  
 Williams, Turner. Nov. 12, 1861.  
 Spencer, Charles L. March 4, 1862.
- 89,443 Smith, William H., April 27, 1869, . . . . . 282 111  
 No references.
- 89,543 Laurence, H. Clay, April 27, 1869, . . . . . 283 111  
 References—Lallament, Pierre, 59,915. Nov. 20, 1866.
- 89,679 Metzgar, Hiram T., May 4, 1869, . . . . . 283 111  
 No references.
- 89,783 McDougall, S. T., May 4, 1869, . . . . . 283 111  
 References—Lallament, Pierre, 59,915. Nov. 20, 1866.  
 Hanlon, William, 86,838. Feb. 9, 1869.  
 Interference with application of Charles and Andrew Spring. Decision favorable to McDougall.
- 89,822 Wilmarth, Seth, May 4, 1869, . . . . . 283 111  
 No references.
- 89,977 Doty, C. J., and Dickinson, Alfred S., May 11, 1869, . . . . . 284 111  
 No references.
- 90,032 Smith, Hugh, May 11, 1869, . . . . . 284 111  
 References—Paulson, 382 of 1861. English.  
 Paulson, 4,321 of 1818. " "  
 Bogel, H., 35,583. June 17, 1862.  
 Smead, E. A. Feb. 15, 1859.
- 90,034 Spring, Charles and Andrew, May 11, 1869, . . . . . 284 111  
 References—Hanlon, William, 86,834. Feb. 9, 1869.  
 Interference with application of S. T. McDougall. Decision favorable to McDougall.
- 90,310 Rourk, Francis, May 18, 1869, . . . . . 285 111  
 No references.
- 9,953 Rourk, Francis, (R.) Nov. 29, 1881, . . . . . 285 111  
 90,310 } Rourk, Francis, (R.) Nov. 29, 1881, . . . . . 285 111  
 References—Ferguson, 88,151. March 23, 1869.  
 O'Neill, 89,235. April 20, 1860.  
 Morrison, 11,821 of 1847. English.  
 Goodrich, 1,213 of 1864. "
- 90,579 Reynolds, James, May 25, 1869, . . . . . 286 112  
 References—Irwin, J. H., 86,406. Feb. 2, 1869.  
 Laubach, W. H., 86,235. Jan. 26, 1869.  
 Quinn, William, 47,220. April 11, 1865.  
 4,321 of 1818. English.
- 90,585 Rowe, Philip C., May 25, 1869, . . . . . 286 112  
 References—Hotchkiss, June 2, 1836.  
 Bogel, H., 35,583. June 17, 1862.  
 Thompson & Marden, 86,787. Feb. 9, 1869.
- 90,601 Spring, Charles and Andrew, May 25, 1869, . . . . . 286 112  
 References—Plumb, Zenas. Nov. 5, 1867.
- 90,797 Thompson, Henry, June 1, 1869, . . . . . 287 112  
 References—MacKenzie, P. W., 36,161. Aug. 12, 1862.  
 Ferguson, H. F., 88,151. March 23, 1869.  
 Hanlon, 79,654. July 7, 1868.  
 Fisher, D. S., 65,199. May 28, 1867.
- 90,837 Guild, Joseph, June 1, 1869, . . . . . 287 112  
 References—Cutter, C. N., 83,606. Nov. 3, 1868.  
 Hanlon, 86,834. Feb. 9, 1869.  
 Greenwood & Husted, 86,339. Jan. 26, 1869.
- 90,947 Jones, Edgar A., June 8, 1869, . . . . . 287 112  
 References—Thompson & Marden, Jr., 86,787. Feb. 9, 1860.  
 Moran, Joshua.  
 Robinson, D. T., 86,251. Jan. 26, 1869.  
 Hanlon, 86,834. Feb. 9, 1869.
- 91,322 Flint, D. P., June 15, 1869, . . . . . 287 112  
 No references.
- 91,323 Flint, D. P., June 15, 1869, . . . . . 288 112  
 No references.
- 91,589 Anderson, Samuel, June 22, 1869, . . . . . 288 112  
 No references.
- 91,679 Sinclair, Lucius A., June 22, 1869, . . . . . 288 112  
 References—Cutter, C. N., 83,606. Nov. 3, 1868.  
 Hunt, D. Jr., 82,319. Sept. 22, 1868.  
 4,321 of 1818. English.
- 92,928 Andrews, Solomon, July 27, 1869, . . . . . 288 113  
 References—Samuels, Isaac, 87,205. Feb. 23, 1869.  
 Barr, S. W., 30,192. Oct. 2, 1860.  
 Blake, E. K. W., 84,163. Nov. 17, 1868.  
 Rogers, J. H., Feb. 17, 1836.  
 Burns, Jabez, 87,630. March 9, 1869.  
 Serrell, L. W., 87,713. March 9, 1869.
- 93,016 Smith, David R., July 27, 1869, . . . . . 289 113  
 Letter containing references absent from the file.
- 93,915 Simon, Louis T., Aug. 17, 1869, . . . . . 289 113  
 References—Bradford, S. 3,035. Oct. 13, 1866.
- 94,215 Jennings S. H., Aug. 31, 1869, . . . . . 289 113  
 References—Quinn, William, 47,220. April 11, 1865.  
 Goodman, J., 44,256. April 13, 1864.
- 96,128 Lowden, George, Oct. 26, 1869, . . . . . 290 113  
 References—Hanlon, 86,834. Feb. 9, 1869.
- 96,396 Clime, John C., Nov. 2, 1869, . . . . . 290 113  
 No references.
- 96,963 Repetti, Joseph, Nov. 16, 1869, . . . . . 290 113  
 References—Cowles & Metten, 89,293. April 27, 1869.  
 Slack, Isaac, (withdrawn) 1845.  
 Farrar, A., 88,286. March 30, 1869.  
 Allen, A. M., 91,896. June 29, 1869.

P.	C.	P.	C.
Monroe, Joshua, 86,856. Feb. 9, 1869. Smith & Walker, 91,682. June 22, 1869.		164,902 Bush, William, June 29, 1875, . . . . .	295 115
97,110 Pease, Joseph I., Nov. 23, 1869, . . . . .	291 113	References—Rathman & Johnson, 90,687. June 1, 1869.	
References—Robinson, Dan T., 86,251. Jan. 26, 1869. Greenwood & Huston, 86,339. Jan. 26, 1869.		171,623 Marble, George W., Dec. 28, 1875, 295 115	
Barr, S. W., 30,192. Oct. 2, 1869. Souter, George, 11,446. Aug. 1, 1854. Interference with application of J. F. Palmer. Decision favorable to Pease.		References—Marqua, 154,500. Aug. 25, 1874. Quinn, 159,770. Feb. 16, 1875.	
97,421 Maynard, Charles A., Nov. 30, 1869, 291 113		9,707 } Marble, George W., (R.) May 17, 171,623 } 1881 . . . . .	296 115
References—Metten & Cowles, 89,293. April 27, 1869. Fisher, D. S., 65,199. May 28, 1867.		References—Gwynn, 145,646. Dec. 16, 1873. Marqua, 154,500. Aug. 25, 1874. Young, 95,753. Oct. 12, 1869. Lord, 11,520. Aug. 15, 1854. Pickering, 88,507. March 30, 1869. Fowler, 72,833. Dec. 31, 1867. Hoffmire, 134,689. Jan. 21, 1873.	
97,837 Volk, William, Dec. 14, 1869, . . . . .	291 113	177,774 Wheeler, Earl A., May 23, 1876, 296 115	
No references.		References—Smith, 90,632. May 11, 1869. Jones, 90,947. June 8, 1869. Bodel et al., 169,774. Nov. 9, 1875. Beck, 86,495. Feb. 2, 1869. Bradford, 53,214. March 13, 1866.	
98,819 Wanner, Anthony, Jan. 11, 1870, . . . . .	291 114	181,432 Gilzinger Sebastain, Aug. 22, 1876, . . . . .	296 115
References—Howe & Hartford, 87,259. Feb. 23, 1869. Keller, L., Jan. 12, 1858. Robinson, Dan T., 86,251. Jan. 26, 1869.		References—Stickney, 88,750. April 6, 1869. Piper, 90,869. June 1, 1869. Jennings, 94,215. Aug. 31, 1869. Hoffman, 146,340. Jan. 13, 1874. Dixon, 157,501. Dec. 8, 1874. Christian & Reinhart, 87,245. Feb. 28, 1869.	
99,546 Emerson, George D., Feb. 8, 1870, 292 114		184,852 Fishwick James, Nov. 28, 1876, . . . . .	296 115
No references.		References—Ball, 105,411. July 19, 1870. Rankin, 89,341. April 27, 1869. Cardot, 90,992. June 8, 1869. Close, 116,413. June 27, 1871.	
102,321 Quinn, William, April 26, 1870, 292 114		186,136 Katon Walter, and Bonfils Paul, Jan. 9, 1877, . . . . .	297 116
No references.		References—Neale, 98,092. Dec. 21, 1869. Hanchett et al., 109,408. Nov. 22, 1870.	
107,888 Eggert, John, Oct. 4, 1870, 292 114		189,588 Will Henry, and Uebele Conrad, April 17, 1877, . . . . .	297 116
References—Thompson, H. June 1, 1869. Interference with application of Matthias Winker. Decision in favor of Eggert.		References—Ferguson, 88,703. April 6, 1869. Quinn, 159,770. Feb. 16, 1875. Greenwood & Husted, 86,339. June 26, 1869. Lawrence, 89,543. April 27, 1869. Monroe, 86,856. Feb. 9, 1869. Amblar, 91,062. June 8, 1869. Allen, 103,957. June 7, 1870. Marble, 185,401. Dec. 19, 1876. Beck, 86,495. Feb. 2, 1869.	
110,057 Maltby, Henry A., Dec. 13, 1870, 293 114		190,353 Mitchell William S., May 1, 1877, 297 116	
References—Jennings, S. H. Aug. 31, 1869.		References—Anderson, 98,657. Jan. 11, 1870. Baily, 161,924. April 13, 1875. Stickney, 88,750. April 6, 1869.	
115,674 Allen, William, and Bond, John W., June 6, 1871, . . . . .	293 114	191,145 Hornig Julius L., May 22, 1877, . . . . .	297 116
References—Allgaier, 79,207. May 11, 1869.		References—Rourk, 90,310. May 18, 1869. Gilzinger, 181,432. Aug. 22, 1876.	
117,638 Johnson, Sidney, Aug. 1, 1871, 293 114		192,022 Shaller, John, June 12, 1877, 298 116	
References—Morrell, 86,573. Feb. 2, 1869. Weston, 88,759. April 6, 1869. Blake, 84,163. Nov. 17, 1868.		No references.	
123,571 Maltby, Henry A., Feb. 13, 1872, 293 114		192,545 Turner, Edward H., June 26, 1877, 298 116	
References—Sturtevant, I., et al. (Forfeited case.) Filed Feb. 26, 1869.		References—Lawrence, 89,543. April 27, 1869.	
Pollcock, H. H. (Rejected case.) Filed March 22, 1869.		194,416 Croft, Matthew E., Aug. 21, 1877, 298 116	
Dayton, C. E., 96,208. Oct. 26, 1869. Macallister, J. M. (Rejected case.) Filed March 27, 1869.		References—Corbett, 165,547. July 13, 1875.	
Armando, A., 94,990. Sept. 21, 1869. Rayner, T. W. R. (Forfeited case.) Filed May 27, 1869.		202,665 Parsons, Henry F., April 23, 1878, 298 116	
Bowyer, J. A. (Rejected case.) Filed April 1, 1869.		References—Knudson, 177,854. May 23, 1876. Wortmann, 93,030. July 27, 1869.	
146,340 Hoffman, Antony A., Jan. 13, 1874, . . . . .	294 114	204,636 Unzicker, Otto, June 4, 1878, 299 116	
References—Samuel, I., 87,205. Feb. 23, 1869. Maltby, 123,571. Feb. 13, 1872. Christian & Reinhart, 79,245. Feb. 23, 1869.		References—Bailey, 97,340. Nov. 30, 1869.	
152,160 Nowak, Moriz, June 16, 1874, 294 114			
References—Thomas, J. H., & J. I. (Rejected case.) Filed Dec. 3, 1867.			
152,214 Cooke, Augustus, June 23, 1874, 294 114			
References—Van der Waag, 88,347. March 30, 1869.			
153,423 Cooke, Augustus, July 28, 1874, 294 115			
References—Hunt, 82,319. Sept. 22, 1868. Piper, 90,869. June 1, 1869.			
154,500 Marqua Phillip J., Aug. 25, 1874, 295 115			
No references.			
159,770 Quinn, William, Feb. 16, 1875, 295 115			
No references.			

- 208,861 Steel, Robert, Oct. 8, 1878, 299 117  
No references.
- 211,116 Steel, Robert, Jan. 7, 1879, 299 117  
No references.
- 211,959 Blood, Edwin, Jr., Feb. 4, 1879, 299 117  
No references.
- 216,190 Joule, Benjamin A., June 3, 1879, 300 117  
No references.
- 217,241 Ruggles, Stephen P., July 8, 1879, 300 117  
References—Keinhart, 95,515. Oct. 5, 1869.  
Smith, 89,443. April 27, 1869.  
Jones, 90,947. June 8, 1869.
- 223,241 Perkins, Nahum S. C., Jan. 6, 1880, 300 117  
References—Smith, 89,443. April 27, 1869.  
Will & Uebel, 210,551. Sept. 9, 1879.  
Cline, 125,273. April 2, 1872.  
Boris, 99,489. May 25, 1869.
- 223,691 Allen, Arthur M., Jan. 20, 1880, 300 117  
References—Hanchet et al., 109,408. Nov. 22, 1870.  
Allgaier, 89,664. May 11, 1869.  
Kruse, 16,660. Nov. 11, 1856.  
McMillan, 91,035. June 8, 1869.  
Fig. 39, p. 14, Mechanical Movement, 1871.  
H. T. Brown.
- 224,165 Fowler, Francis, Feb. 3, 1880, . . . 301 117  
References—Gregg, 125,451. April 9, 1872.  
McCleave, 88,880. April 13, 1869.  
Mahay, 123,571. Feb. 13, 1872.  
Barns, 87,630. March 9, 1869.
- 226,504 Espirandieu, Emile F., April 13, 1880, . . . 301 118  
References—Janson, 115,212. May 23, 1871.  
Gregg, 125,451. April 9, 1872.
- 226,578 Whitmore, George E., April 13, 1880, . . . 301 118  
References—Guld, 90,837. June 1, 1869.  
Browne, 215,876. May 27, 1879.
- 227,511 Fowler, Francis, May 11, 1880, . . . 302 118  
No references.
- 227,685 Gill, Joshua S., Jr., and Alexander, George B., May 18, 1880, . . . 302 118  
No references.
- 227,746 Fancher, James A., May 18, 1880, 303 118  
References—Van Anden, 88,238. March 23, 1869.  
Thompson & Marden, 86,787. Feb. 9, 1869.  
Robinson, 86,257. Jan. 26, 1869.  
Knight, 159,584. Feb. 9, 1875.
- 230,176 Collins, Daniel H., Tuttle, John W. T., and Collins, Henry C., July 20, 1880, . . . 303 118  
References—Andrews, 92,928. July 27, 1869.  
Fishwick, 184,852. Nov. 28, 1876.  
3,570 of 1869. English.
- 230,428 McGann, Owen J., July 27, 1880, 303 119  
References—Allen, 91,861. June 29, 1869.
- 231,347 Newton, Richard, Aug. 17, 1880, 304 119  
References—Skidmore, 85,337. Dec. 29, 1858.
- 231,609 Perkins, Nahum S. C., Aug. 24, 1880, . . . 304 119  
No references.
- 231,622 Schlueter, Henry, Aug. 24, 1880, . . . 304 119  
References—Rourt, 90,310. May 18, 1869.
- 233,682 Lowden, George, Oct. 26, 1880, . . . 305 119  
References—Jones, 90,917. June 8, 1869.
- 233,691 Palmer, William, Oct. 26, 1880, . . . 305 119  
References—Monroe, 86,856. Feb. 9, 1869.  
Jennings, 94,215. Aug. 31, 1869.  
Jones, 90,947. June 8, 1869.  
Northrup, 36,790. Oct. 28, 1862.  
Malthy, 123,571. Feb. 13, 1872.
- 235,399 Arkins, Joseph, Dec. 14, 1880, . . . 306 119  
No references.
- 235,720 Wittenberg, Charles, Dec. 21, 1880, 306 119  
References—Hill, 88,872. April 13, 1869.
- 239,812 Lowth, James, April 5, 1881, . . . 306 119  
References—Vreeland, 225,310. March 9, 1880.  
Swank, 92,668. July 13, 1869.  
Unzicker, 204,636. June 4, 1878.
- 240,990 Fowler, Francis, May 3, 1881, . . . 307 120  
References—Fowler, 227,511. May 11, 1880.  
Wilson, 89,960. May 11, 1869.
- 242,212 McKenzie, James A., May 31, 1881, . . . 307 120  
References—4,250 of 1876. English.  
2,164 of 1879. " "  
Rankin, 89,341. April 27, 1869.  
Fowler, 224,165. Feb. 3, 1880.
- 242,305 Guinand, Oliver U., May 31, 1881, 308 120  
References—Dayton, 96,208. Oct. 26, 1869.  
Hodge, 9,054. June 22, 1852. \*  
Derozier, 74,058. Feb. 4, 1868.  
Hanchet et al., 109,408. Nov. 22, 1870.
- 242,310 Harrison, Alfred J., May 31, 1881, 309 120  
References—Sindon, 88,574. April 6, 1869.  
Hughes, 227,632. May 18, 1880.
- 245,434 Bean, John, and Roscoe, Aug. 9, 1881, . . . 309 120  
References—Gendron, 150,021. April 21, 1874.
- 245,656 Reed, William S., and Parker, Homer N., Aug. 16, 1881, . . . 309 121  
References—Cline, 86,906. Feb. 16, 1869.  
Donovan, 86,738. Feb. 9, 1869.
- 247,643 Hillman, William, Sept. 27, 1881, 309 121  
References—Duecker, 145,500. Dec. 30, 1873.  
McCleave, 88,889. Sept. 13, 1869.
- 248,441 Fowler, Francis, Oct. 18, 1881, 310 121  
References—Hosea, 228,996. June 22, 1880.  
Giles, 236,572. Jan. 11, 1881.  
Hinckley & Culver, 213,109. March 11, 1879.  
MacKenzie, (R.) 7,818. July 31, 1877.  
Fowler, 224,165. Feb. 3, 1880.  
Fowler, 227,511. May 11, 1880.  
Fowler, 240,990. May 3, 1881.  
Higham, 218,668. Aug. 26, 1879.
- 248,545 Work, Charles L., Oct. 18, 1881, 311 121  
References—Marqua, 154,500. Aug. 25, 1874.  
Marble, (R.) 9,707. May 17, 1881.  
Will & Uebel, 210,551. Sept. 9, 1879.  
Toepfer & Roff, 232,783. Sept. 28, 1880.  
Giles, 236,572. Jan. 11, 1881.  
Green, 11,063. June 13, 1854.  
Brown, 173,206. Feb. 8, 1876.
- 249,853 Merrill, Nelson, Nov. 22, 1881, 311 121  
References—Rourt, 90,310. May 18, 1869.  
6,052 of 1830. English.  
Winder, 9,716. May 10, 1853.  
McDougall, 89,783. May 4, 1869.
- 250,589 Silver, Samuel N., Dec. 6, 1881, . . . 311 121  
References—Seagrave, 169,302. Oct. 26, 1875.  
Kiefer, 234,064. Nov. 2, 1880.  
Cowles & Metten, 89,293. Aug. 27, 1869.  
McKenzie, 242,212. May 31, 1881.

P. C.	P. C.
252,455 Giles, William W., Jan. 17, 1882, 311 122	264,073 Gallup, Henry C., Sept. 12, 1882, 317 124
References—Malby, 110,057. Dec. 13, 1870. Stickney, 88,750. April 6, 1869. Perkins, 223,241. Jan. 6, 1880. McKenzie, 242,212. May 31, 1881. Perkins, 231,609. Aug. 24, 1880. Hosea, 228,906. June 22, 1880. Whitmore, 226,578. April 13, 1880. Guild, 90,837. June 1, 1869.	References—Fowler, 240,990. May 3, 1881. 265,996 Trekkell, Benjamin F., Oct. 17, 1882, 317 124 No references.
253,739 McGrégor, Thomas, Feb. 14, 1882, 312 121	266,820 Heath, Watson A., Oct. 31, 1882, 318 124
References—Hill, 88,872. April 13, 1869. 2,048 of 1869. English. 209 of 1870. "	References—Quinn, 159,770. Feb. 16, 1875. Ünzicker, 204,636. June 4, 1878. Marble, (R.) 9,707. May 17, 1881. Marble, 185,401. Dec. 19, 1876. Sparks, 122,074. Dec. 19, 1871.
254,639 Grout, William H. J., March 7, 1882, . . . . . 312 122	269,609 White, Joseph, Dec. 26, 1882, 318 124
References—Blanchard, Dec. 28, 1825. Boris, 90,489. May 25, 1869. Fairchild, 230,762. Aug. 3, 1880. Nislosduff, 102,423. April 26, 1870. Gilbert, 222,779. Dec. 23, 1879.	References—2,164 of 1879. English. 3,892 of 1880. " 2,164 of 1880. " 3,879 of 1880. " Fowler, 240,990. May 3, 1881. 512 of 1881. English. Giles, 252,455. Jan. 17, 1882. Perry, 87,287. Feb. 23, 1869. Perkins, 231,609. Aug. 24, 1880. Giles, 236,573. Jan. 11, 1881. 5,046 of 1880. English. Richard, 252,624. Jan. 24, 1882. Wilson, 89,960. May 11, 1869.
256,118 Brown, James O., April 11, 1882, 313 122	270,691 Overman, Albert H., and Hardley, Charles F., Jan. 16, 1883, . . . . . 318 124
References—Otto, 243,959. July 5, 1881. McKenzie, 242,212. May 31, 1881.	No references. Interference with application of William S. Kelley. Decision favorable to Kelley.
10,307 } Brown, James O., (R.) April 10, 256,118 } 1883, . . . . . 314 122	270,913 Spencer, George N., Jan. 23, 1883, 319 125
References—Grubb, 248,737. Oct. 25, 1881. 1,306 of 1877. English. Robinson, 86,251. Jan. 26, 1869. Laurence, 178,666. May 30, 1876. Pullen, 236,454. Jan. 11, 1881. Perkins, 223,241. Jan. 6, 1880. McKenzie, 242,212. May 31, 1881.	References—11,891 of 1847. English.
256,870 Beckwith, Walter C., April 25, 1882, . . . . . 314 123	271,583 Hiester, Charles E., Jan. 30, 1883, 320 125
References—Spring, 90,034. May 11, 1869. 834 of 1869. English. Holske & Babbitt, 91,018. June 8, 1869.	References—Maynard, 97,421. Nov. 30, 1869. 3,118 of 1877. English. 1,937 of 1880. " 3,502 of 1877. " Rankin, 89,341. April 27, 1869. Segrave, 169,302. Oct. 26, 1875. 4,121 of 1881. English. Pickering, 88,507. March 30, 1860. McGregor, 253,739. Feb. 14, 1882. 4,121 of 1880. English. 2,591 of 1880. "
257,375 Overman, Albert H., May 2, 1882, 314 123	274,231 Starley, John K., March 20, 1883, 320 125
References—McKenzie, 242,212. May 31, 1881. Giles, 236,573. Jan. 11, 1881. Simon, 93,915. Aug. 17, 1869. Rankin, 89,341. Sept. 27, 1869. Hillman, 247,643. Sept. 27, 1881. Buchanan, 199,409. Jan. 22, 1878. Silver, 250,589. Dec. 6, 1881. 4,000 of 1879. English. Giles, 236,572. Jan. 11, 1881.	References—Otto, 252,504. Jan. 17, 1882. Johnson, 196,638. Aug. 1, 1871. Oito, May 31, 1879. English.
257,415 Unzicker, Otto, May 2, 1882, . . . 315 123	274,762 Handy, Charles F., and Anthony, Wendell P., March 27, 1883, . . . . . 320 125
References—Giles, 236,573. Jan. 11, 1881. Hillman, 247,643. Sept. 27, 1881. Parsons, 202,665. April 23, 1878. Harper, 91,438. June 15, 1869.	References—Sloan, 261,395. July 18, 1882. Perkins, 231,609. Aug. 24, 1880.
257,512 Overman, Albert H., May 9, 1882, 316 123	276,786 Davies, Thomas A., May 1, 1883, 320 125
References—Simon, 93,915. Aug. 17, 1869. Rankin, 89,341. April 27, 1869. 3,892 of 1880. English. 2,164 of 1880. " 1,274 of 1879. " 3,388 of 1877. " Seagrave, 169,302. Oct. 26, 1875. 5,043 of 1879. English.	References—5,043 of 79. English. White, 269,609. Dec. 26, 1882. Silver, 250,589. Dec. 6, 1881.
259,099 Collins, Paul E., June 6, 1882, . . . 316 123	279,356 Denton, William B., June 12, 1883, . . . . . 321 125
No references.	References—Wheeler, 177,774. May 23, 1876. Silver, 267,607. Nov. 14, 1882. Reinhart, 95,515. Oct. 5, 1869.
259,444 White, Frederick, June 13, 1882, 316 123	280,927 Hays, Charles W., July 10, 1883 321 126
References—Trautmann, 229,562. July 6, 1880. Trautmann, 248,531. Oct. 18, 1881. Davis, 224,153. Feb. 3, 1880. Nislosduff, 102,423. April 26, 1870. Grout, 254,639. March 7, 1882. Giles, 252,455. Jan. 17, 1882.	References—Fowler, 227,511. May 11, 1880.
260,887 Morris, William B., July 11, 1882, 317 124	282,358 Overman, Albert H., and Hadley, Charles F., July 31, 1883, . . . . . 321 126
References—Fountain locomotive.	References—1,871 of 1881. English. 2,202 of 1881. " 2,870 of 1877. "
	284,509 Stassen, Joseph J., Sept. 4, 1883, 322 126
	References—1,647 of 1879. English.

	P. C		P. C.
284,612 Charsley, Robert H., Sept. 11, 1883, . . . . .	322 126	293,347 Moore, Baldwin S., Feb. 12, 1884, 330 128	
No references.		References—Graham, 29,879. Sept. 4, 1860.	Douthett, 107,233. Sept. 13, 1870.
284,781 Waldo, Charles F., Sept. 11, 1883, 323 126		Hoge, 19,468. Feb. 23, 1858.	Dedrick & Grass, 75,874. March 24, 1868.
References—Bailey, 179,253. June 27, 1876.		294,178 Allen, Arthur M., Feb. 26, 1884, 330 128	
Greene, 99,100. Oct. 26, 1875.		References—Hancock, 194,870. Sept. 4, 1877.	Beckwith, 256,870. April 25, 1882.
Emerson, 99,546. Feb. 8, 1870.		Webster, 254,181. Feb. 28, 1882.	Will & Uebel, 219,551. Aug. 29, 1878.
Sloan, 261,395. July 18, 1882.		Blandy, 43,387. July 5, 1864.	Hoffman, 97,640. Dec. 7, 1869.
Barnard, 748. May 25, 1838.		Otto, 212,492. Feb. 18, 1879.	Moor, 88,894. April 13, 1869.
Cunning, 87,913. March 16, 1869.		Salmon, 236,372. Jan. 4, 1881.	
Bower, 120,847. Nov. 14, 1871.		295,257 Lloyd, Walter J., March 18, 1884, 331 129	
Fowler, 248,441. Oct. 18, 1881.		References—Fancher, 227,746. May 18, 1880.	Haynes, 98,592. Jan. 4, 1870.
Bissell, 2,307. Oct. 11, 1841.		Nilosdoff, 102,423. April 26, 1870.	
Spring, 90,934. May 11, 1869.		295,861 Dutrow, David E., March 25, 1884, 331 129	
Bogel, 35,583. June 17, 1862.		References—Ferguson, 88,151. March 23, 1869.	Dayton, 96,208. Oct. 26, 1869.
285,130 Hiester, Charles E., Sept. 18, 1883, 324 126		295,894 Atherton, Fisher C., April 1, 1884, 332 129	
References—Overman & Hadley, 270,691. Jan. 16, 1883.		References—Crandall, 92,273. July 6, 1866.	Trautman, 248,531. Oct. 18, 1881.
Handy & Anthony, 274,762. March 27, 1883.		Baker, 273,007. Feb. 27, 1883.	Bridgman, 247,156. Sept. 20, 1881.
Atherton, 92,689. July 20, 1869.		Unzicker, 257,415. May 2, 1882.	
285,205 Bailey, James G., Sept. 18, 1883, 325 126		296,639 Spence, William, and Thompson, Richard C., April 8, 1884, . . . . . 332 129	
References—Gill & Alexander, 227,685. May 18, 1880.		References—415 of 1882. English.	
Cutter, 82,696. Nov. 3, 1868.		296,837 Jones, Frederick W., April 15, 1884, . . . . . 334 130	
Avery, 146,159. Jan. 6, 1874.		No references.	
Overman, 257,375. May 2, 1882.		297,238 Dopp, Frederick J. W., and Wolff, George, April 22, 1884, . . . . . 334 130	
Starley, 274,231. March 20, 1883.		References—Shirreff, 243,166. June 21, 1881.	
1,909 of 1879. English.		Shirreff, 192,022. June 12, 1877.	
286,180 Cooper, Montraville, Oct. 9, 1883, 326 127		Hoffmire, 134,989. Jan. 21, 1873.	
References—Salamon, 236,372. Jan. 4, 1881.		300,359 Gowdy, John, June 17, 1884, . . . . . 334 130	
Guild, 90,837. June 1, 1869.		References—Woodruff, 293,837. Feb. 19, 1884.	
Janson, 115,212. May 23, 1871.		Seagrave, 169,302. Oct. 26, 1875.	
287,960 Quatremaine, George W., Nov. 6, 1883, . . . . . 327 127		Rankin, 89,341. April 27, 1869.	
References—Repetti, 96,963. Nov. 16, 1869.		301,307 Von Palstring, Franz B., July 1, 1884, . . . . . 335 130	
288,114 Ray, James H., Nov. 6, 1883, . . . . . 327 127		No references.	
References—Randall, 270,480. Jan. 9, 1883.		10,624 } Von Palstring, Franz B., (R.), 301,307 } July 14, 1885, . . . . . 335 130	
Fox, 225,585. March 1880.		No references.	
Linsley, 270,320. Jan. 9, 1883.		302,398 Guimand, Oliver U., July 22, 1884, 336 130	
Felker, 48,387. Jan. 27, 1865.		References—Deroyer, 74,058. Feb. 4, 1868.	
289,151 Shauanck, Henry K., Nov. 27, 1883, 328 127		Serrell, 87,713. May 9, 1869.	
References—McKenzie, 242,212. May 31, 1881.		305,925 Higham, Enos T., and Daniel, Sept. 30, 1884, . . . . . 336 130	
Wilmarth, 89,822. May 4, 1869.		References—3,730 of 1882. English.	
Wood, 85,501. Dec. 29, 1868.		4,837 of 1882.	
Blake, 84,163. Nov. 17, 1868.		Stoliker, 50,425. Oct. 10, 1865.	
Perry, 87,287. Feb. 23, 1869.		Crowell, 244,742. July 26, 1881.	
Overman, 257,375. May 2, 1882.		307,757 Fletcher, Robert C., Nov. 11, 1884, 338 131	
Fishwick, 184,852. Nov. 28, 1876.		No references.	
McKenzie, 241,395. May 10, 1881.		309,109 Taylor, Sydney W., Dec. 9, 1884, 339 131	
Andrews, 92,928. July 27, 1869.		References—Burstow, 248,998. Nov. 1, 1881.	
289,746 Auld, Joseph, Dec. 4, 1883, . . . . . 328 127		309,325 Warwick, George T., Dec. 16, 1884, 339 131	
References—1,607 of 1880. English.		References—4,000 of 1879. English.	
5,082 of 1880. "		309,667 Vossmer, Frederick W., Dec. 23, 1884, . . . . . 339 131	
518 of 1882. "		References—Coleman, 95,325. Sept. 28, 1869.	
5,682 of 1881. "		Chase, 53,572. April 3, 1866.	
1,812 of 1882. "			
Handy & Anthony, 274,762. March 27, 1883.			
Emerson, 99,546. Feb. 8, 1870.			
290,117 Sachs, Heinrich, Dec. 11, 1883, . . . . . 328 127			
References—Serrell, 87,713. March 9, 1869.			
291,376 Merrill, Nelson, Jan. 1, 1884, . . . . . 329 128			
References—Smith, 90,032. May 11, 1869.			
Denovan, 86,738. Feb. 9, 1869.			
292,708 Tennent, John C., Jan. 29, 1884, 329 128			
References—5,027 of 1830. English.			
137 of 1869. "			

P.	C.	P.	C.
Gardner & Trageser, 87,769. March 16, 1869.		325,823 Dillon, James M., Sept. 8, 1885, . . . . .	345 133
309,740 Racine, Henry, Dec. 23, 1884, 339 131	No references.	326,244 Rice, David H., Sept. 15, 1885, . . . . .	345 133
309,933 Deering, James A., Dec. 30, 1884, 340 131	References—	References—	1,421 of 1884. English. 4,306 of 1882. "
References—Tripler & Roff, 232,783. Sept. 28, 1880.		326,245 Rice, David H., Sept. 15, 1885, . . . . .	346 134
Pressey, 234,722. Nov. 23, 1880.		No references.	
White, 269,609. Dec. 26, 1882.		327,952 Junge, Frederick, Oct. 6, 1885, . . . . .	348 134
Goodman, 44,256. Sept. 13, 1864.		References—	Cardon, 305,098. July 15, 1884. Martin, 124,500. March 12, 1872. Church, 263,857. Sept. 5, 1882. Merrill, 291,376. Jan. 1, 1884. 4,090 of 1883. English.
Caldwell, 109,299. Nov. 15, 1870.		329,517 Warwick, Thomas, Nov. 3, 1885, 349 134	
Perkins, 284,476. Sept. 4, 1883.		References—	Perkins, 231,609. Aug. 24, 1880. Crother & Bergeron, 159,564. Feb. 9, 1875. Taylor, 109,358. Nov. 15, 1870. McCormick & Jerrold, 29,222. July 17, 1860. Cobb, 116,557. July 4, 1871. 3,564 of 1879. English. Interference with application of Emmitt G. Latta. Decision favorable to Latta.
310,676 Hall, Thomas P., and James B., Jan. 13, 1885, . . . . .	340 131	330,026 Howe, Edward P., Nov. 10, 1885, 350 135	
No references.		No references.	
310,868 Andrews, Reuben H., Jan. 20, 1885, . . . . .	340 131	330,027 Howe, Edward P., Nov. 10, 1885, 350 135	
References—Hatz, 149,223. March 31, 1874. 5,284 of 1881. English.		References—	Davelley, 51,158. Nov. 28, 1865. Latta, 92,265. July 6, 1869. Ladd, 165,337. July 6, 1875. Knapp, 167,341. Aug. 31, 1875.
Perkins, 231,609. Aug. 24, 1880.		335,811 Hadley, Charles F., Feb. 9, 1886, 351 135	
Crother & Bergeron, 159,504. Feb. 9, 1875.		References—	Unzicker, 257,415. May 2, 1882.
Cooke, 152,214. June 23, 1874.		336,968 White, Frederick, March 2, 1886, 351 135	
Francis, 249,743. Sept. 6, 1881.		References—	Deering, 309,933. Dec. 30, 1884. Fishwick, 184,852. Nov. 28, 1876. Buchanan, 199,409. Jan. 22, 1878. Overman & Hadley, 270,691. Jan. 16, 1883. 4,121 of 1881. English. 5,991 of 1882. " 3,118 of 1877. " Gowdy, 300,559. June 17, 1884.
Lowe, 99,096. Jan. 25, 1870.		338,151 Griffiths, John A., March 16, 1886, 351 136	
Atherton, 92,689. July 20, 1869.		References—	4,722 of 1881. English. 3,504 of 1883. " 1,169 of 1881. " McClinchie & Butler, 299,240. May 27, 1884. Tops & Wells, 162,726. April 27, 1875.
311,084 Paessler, Theophilus H., Jan. 20, 1885, . . . . .	341 132	340,617 Robinson, Henry A., April 27, 1886, . . . . .	352 136
No references.		References—	5,490 of 1883. English. 2,549 of 1884. " 2,547 of 1884. "
312,411 Wallace, Albert E., Feb. 17, 1885, 341 132		342,972 Petersen, Thorvald N., June 1, 1886, . . . . .	352 136
References—2,361 of 1882. English. 4,434 of 1881. "		References—	137 of 1879. English.
313,018 Overman, Albert H., and Hadley, Charles F., Feb. 24, 1885, . . . . .	342 132	343,165 Fay, W. Lamartin, June 8, 1886, 353 136	
References—Trekell, 265,996. Oct. 17, 1882. Hancock, 194,870. Sept. 4, 1877. Bedford, 53,214. March 13, 1866. White, 269,609. Dec. 26, 1882.		References—	Atherton, 295,894. April 4, 1884. Janson, 115,212. May 23, 1871. Asbury, 255,946. Oct. 2, 1853. Crandall, 92,273. July 6, 1869. Cooper, 286,180. Oct. 9, 1883.
313,460 Valiquet, Louis P., March 3, 1885, 342 133		343,753 Biggs, David G., June 15, 1886, 353 136	
References—Handy & Anthony, 274,762. May 27, 1883.		References—	Giles, 252,455. Jan. 17, 1882. Letter of April 27, 1886. Lost.
Grout, 254,639. March 7, 1882.		344,529 Howe, Edward P., June 29, 1886, 353 137	
Brown, 256,118. April 11, 1882.		References—	2,361 of 1882. English. 3,934 of 1879. " 2,920 of 1879. "
314,013 Griffiths, George H., March 17, 1885, . . . . .	343 133		
No references.			
321,162 Weber, Theodore R. A., Hennig, Carl G. E., and Frommelt, Alfred E., June 30, 1885, . . . . .	343 133		
References—Handy & Anthony, 274,762. March 27, 1883.			
4,767 of 1880. English. 5,253 of 1881. "			
5,253 of 1880. English.			
White, 269,609. Dec. 26, 1882.			
Thompson & Marden, 86,787. Feb. 9, 1869.			
323,640 Crowley, Daniel, Aug. 4, 1885, . . . . .	343 133		
References—Reynolds, 80,425. July 28, 1868.			
Guy, 93,433. Aug. 10, 1869.			
Fancher, 227,746. May 18, 1880.			
Crandall, 92,273. July 6, 1869.			
Brown, 256,118. April 11, 1882.			
325,019 Shakespear, Thomas, Aug. 25, 1885, . . . . .	344 133		
References—4,000 of 1879. English. 5,682 of 1881. " 1,001 of 1881. "			
Bridenthal, 252,720. Jan. 24, 1882.			
325,338 Hall, Thomas P. and James B., Sept. 1, 1885, . . . . .	345 133		
References—Katon & Bonfils, 186,136. Jan. 9, 1877.			
Pesenecker, 206,776. April 15, 1884.			
Gill & Alexander, 227,685. May 18, 1880.			

- |   | P. C.   |
|---|---------|
| 344,530 Howe, Edward P., June 29, 1886, . . . . .   | 354 137 |
| No references.  |         |
| 344,531 Howe, Edward P., June 29, 1886, . . . . .   | 354 137 |
| References—Spencer, 270,913. Jan. 23, 1883.<br>2,062 of 1884. English.<br>Overman & Hadley, 313,018. Feb. 24, 1885.   |         |
| 346,208 Lloyd, Walter J., and Priest, William, July 27, 1886, . . . . .   | 354 137 |
| No references.  |         |
| 348,057 Rice, David H., and Lepine, H., Aug. 24, 1886, . . . . .  | 355 138 |
| References—Lorenz, 298,217. May 6, 1884.<br>Seagrave, 169,302. Oct. 26, 1875.<br>Scott, 349,254. April 20, 1876.<br>Heath, 4,122 of 1881. English.  |         |
| 348,891 Curtis, Henry J., Sept. 7, 1886, . . . . .  | 355 138 |
| References—Hotchkiss, 186,565. Jan. 23, 1877.   |         |
| 349,801 King, Homer A., Sept. 28, 1886, . . . . .   | 356 138 |
| References—Crother & Bergeron, 159,564. Feb. 9, 1875.<br>Burton, 338,657. March 23, 1886.   |         |
| 350,080 Phillips, Walter, Sept. 28, 1886, . . . . .   | 356 138 |
| References—5,583 of 1883. English.<br>15,590 of 1884. " "<br>McClure, 331,518. Dec. 1, 1885.<br>Post, 285,513. Sept. 25, 1883.<br>Humber, 305,690. Sept. 23, 1884.  |         |
| 350,719 Black, David, Oct. 12, 1886, . . . . .  | 357 139 |
| References—Asbury, 285,946. Oct. 2, 1883.<br>Atherton, 295,894. April 1, 1884.<br>Hinchliffe & Culver, 213,109. March 11, 1879.   |         |
| 351,150 Baines, Hugh, Oct. 19, 1886, . . . . .  | 357 139 |
| References—Larrouque, 288,821. Nov. 20, 1883.<br>Whiting, 250,316. Nov. 29, 1881.<br>Allen, 94,055. Aug. 24, 1869.<br>Zoell, 208,876. Oct. 8, 1878.<br>Howe & Hartford, 87,259. Feb. 23, 1869.<br>Neale, 98,092. Dec. 21, 1869.<br>Unzicker, 257,415. May 2, 1882.<br>Morton, 128,240. June 25, 1872.<br>4,157 of 1882. English.<br>Esperandieu, 226,504. April 13, 1880. |         |
| 351,243 Baines, Hugh, Oct. 19, 1886, . . . . .  | 357 139 |
| No references.  |         |
| 351,872 Libbey, Hosea W., Nov. 2, 1886, . . . . .   | 358 139 |
| References—Serrell, 87,713. March 9, 1869.<br>Libbey, 88,492. March 30, 1869.<br>Joule, 216,190. June 3, 1879.<br>McMahon, 298,994. May 20, 1884.<br>Lunsford, 305,698. Sept. 23, 1884.   |         |
| 351,873 Linley, Charles M., and Biggs, John, Nov. 2, 1886, . . . . .  | 358 139 |
| No references.  |         |
| 351,942 Smith, William N., Nov. 2, 1886, . . . . .  | 359 140 |
| References—Nisłosduff, 102,423. April 26, 1870.<br>Hubbard, 87,936. March 16, 1869.   |         |
| 352,503 Zanger, Theodor, Nov. 9, 1886, . . . . .  | 359 140 |
| References—Warner, 282,938. Aug. 7, 1883.<br>Atherton, 295,894. April 1, 1884.  |         |
| 353,917 Britton, Rodney G., Dec. 7, 1886, . . . . .   | 359 140 |
| References—Churchill, 248,709. Oct. 25, 1881.<br>Wiard, 254,082. Feb. 21, 1882.<br>Merrill, 249,853. Nov. 22, 1881.   |         |
| 354,337 Mercer, Alfonso, Dec. 14, 1886, . . . . .   | 360 140 |
| References—Hart, 339,765. April 13, 1886.<br>Dutton, 247,809. Oct. 4, 1881.<br>Hanchet et al., 109,408. Nov. 22, 1870.  |         |
| P. C.   |         |
| 354,642 Linley, Charles M., and Biggs, John, Dec. 21, 1883, . . . . .   | 360 140 |
| References—7,670 of 1884. English.<br>4,666 of 1879. "  |         |
| 354,656 Rodecap, George W., Dec. 21, 1886, . . . . .  | 361 140 |
| References—Lorenzo, 289,217. May 6, 1884.<br>Dutton, 247,809. Oct. 4, 1881.<br>Harper, 91,438. June 15, 1869.   |         |
| 355,038 Unzicker, Otto, Dec. 28, 1886, . . . . .  | 362 140 |
| References—Shireff, 246,166. June 21, 1881.<br>266,820. Oct. 31, 1882.<br>Nolan, 193,098. July 17, 1877.<br>Lillidge, 204,645. March 4, 1884.<br>McCoy, 314,701. March 3, 1885.   |         |
| 355,253 Burdless, Adam, Dec. 28, 1886, . . . . .  | 362 141 |
| References—1,122 of 1883. English.<br>184 of 1884. "  |         |
| 356,388 Whitmore, George E., Jan. 18, 1887, . . . . .   | 362 141 |
| References—Whitmore, 226,578. April 13, 1880.<br>Hill et al., 220,252. June 29, 1880.<br>Buchanan, 199,409. Jan. 22, 1878.<br>1,438 of 1869. English.<br>Smith, 90,032. May 11, 1869.<br>Hoffman, 146,340. Jan. 13, 1874.   |         |
| 357,249 Valiquet, Louis P., Feb. 8, 1887, . . . . .   | 363 141 |
| References—Petetti, 96,963. Nov. 16, 1869.<br>Stone, 183,079. Oct. 10, 1876.<br>Heath, 4,122 of 1881. English.<br>Mitchell, 2,910 of 1884. "  |         |
| Brown & Leland, 27,966. April 24, 1860.<br>Hewett, 47,723. May 16, 1865.<br>Valiquet, 313,460. March 3, 1885.<br>Andrews, 310,868. Jan. 20, 1885.<br>Perkins, 309,086. Dec. 9, 1884.<br>Ugland, 319,040. June 2, 1885.  |         |
| 358,178 Wiggins, David, Feb. 22, 1887, . . . . .  | 363 141 |
| References—Pressy, 234,722. Nov. 23, 1880.<br>4,737 of 1882. English.<br>518 of 1882. "   |         |
| Cooper, 200,435. Feb. 19, 1878.<br>7,935 of 1884. English.<br>2,746 of 1870. "  |         |
| Brown, 264,133. Sept. 12, 1882.<br>12,449 of 1884. English.<br>4,548 of 1881. "   |         |
| 15,342 of 1884. "<br>193 of 1886. "   |         |
| 359,000 Anderson, Charles C., March 8, 1887, . . . . .  | 365 142 |
| References—Brown's Mechanical Movement, Fig. 348, p. 84. 1868.<br>15,590 of 1884. English.  |         |
| 361,581 Ellis, Silas C., April 19, 1887, . . . . .  | 366 142 |
| References—Baker, 27,3007. Feb. 27, 1883.<br>Scharff, 149,416. April 7, 1874.<br>Andrews, 310,868. Jan. 20, 1885.<br>Merrill, 291,376. Jan. 1, 1884.  |         |
| 363,189 Watson, Richard, May 17, 1887, . . . . .  | 366 142 |
| References—Desable, 341,736. May 11, 1886.<br>3,814, of 1876. English.  |         |
| 363,518 Hart, Harry B., May 24, 1887, . . . . .   | 366 142 |
| References—Malby, 123,571. Feb. 13, 1872.<br>12,934 of 1884. English.<br>Griffiths, 338,151. March 16, 1886.<br>Illston, 245,071. Aug. 2, 1881.<br>Lewis, 286,835. Oct. 16, 1883.<br>Hoffman, 134,989. Jan. 21, 1873.<br>2,254 of 1879. English.<br>10,349 of 1884. "<br>176 of 1884. "   |         |
| Hanchet et al., 109,408. Nov. 22, 1870.   |         |
| 3,564 of 1879. "<br>4,666 of 1879. "  |         |

P.	C.	P.	C.
Interference with application of John Harrington. Decision favorable to Hart.		385,350 Hadley, Charles F., July 3, 1888, 374 146	
364,782 Thiessen, Heinrich, June 14, 1887, 367 142	References—Simon, 93,915. Aug. 17, 1869.	References—10,883 of 1885. English.	Shelton, 348,062. Aug. 24, 1886.
365,015 Moore, Thomas W., June 14, 1887, 367 143	References—Serrell, 87,713. March 9, 1869.	385,847 Copeland, James S., July 10, 1888, 375 146	No references.
Andrews, 92,928. July 27, 1869.	Andrews, 257,415. May 2, 1882.	387,631 Duryea, Charles E., Aug. 14, 1888, 377 147	
Dayton, 96,208. Oct. 26, 1869.	Ashbury, 285,947. Oct. 2, 1883.	References—Beckwith, 256,870. April 25, 1882.	Giles, 252,455. Jan. 17, 1882.
Beeger, 233,396. Oct. 19, 1880.	Fay, 343,105. June 8, 1886.	King, 349,801. Sept. 28, 1886.	Davies, 296,936. April 15, 1884.
Libbey, 351,872. Nov. 2, 1886.	Black, 350,719. Oct. 12, 1886.	390,641 Baines, Hugh, Oct. 9, 1888, . . . 378 147	
365,377 Gendron, Peter, June 28, 1887, 368 143	Mackie, 317,395. May 5, 1885.	References—Garland, 311,305. Jan. 27, 1885.	Repetti, 96,963. Nov. 16, 1869.
References—Unzicker, 257,415. May 2, 1882.	References—I,124 of 1883. English.	Weber, 333,268. Dec. 29, 1885.	Hanneimen, 225,010. March 2, 1880.
Ashbury, 285,947. Oct. 2, 1883.	184 of 1884. "	391,333 Osborne, William T., and Johnson, John, Oct. 16, 1888, . . . 378 148	
Fay, 343,105. June 8, 1886.	References—12,225 of 1885. English.	References—Watt, 203,968. May 21, 1878.	
Black, 350,719. Oct. 12, 1886.	371,374 Schmitt, Karl, Oct. 11, 1887, . . . 369 143	394,287 O'Brien, Thomas, Dec. 11, 1888, . . . 378 148	
Mackie, 317,395. May 5, 1885.	No references.	References—Mercer, 354,337. Dec. 14, 1886.	Latto, 378,693. Feb. 28, 1888.
365,702 Pope, Harry M. June 28, 1887, . . . 368 143	372,736 Ames, Emerson, Nov. 8, 1887, . . . 370 143	396,083 Harris, Frank H., Jan. 15, 1889, 379 148	
References—I,124 of 1883. English.	References—4,029 of 1882. English.	References—Work, 314,160. March 17, 1885.	Unzicker, 242,490. June 7, 1881.
184 of 1884. "	4,192 of 1883. "	396,892 Pool, Francis W., Jan. 29, 1889, 379 148	
369,540 Marlin, John M., Sept. 6, 1887, . . . 368 143	8,019 of 1885. "	No references.	
References—12,225 of 1885. English.	375,176 McEntee, Arthur E., Dec. 20, 1887, . . . 370 143	397,348 Fay, Winslow L., Jan. 5, 1889, . . . 379 148	
371,374 Schmitt, Karl, Oct. 11, 1887, . . . 369 143	References—Wortman, 93,030. July 27, 1869.	References—Clime, 106,780. Aug. 30, 1870.	Ferguson, 88,151. March 23, 1869.
No references.	376,551 Rodecap, George W., Jan. 17, 1888, 370 144	398,005 Smith, William E., Feb. 19, 1889, 380 148	
372,736 Ames, Emerson, Nov. 8, 1887, . . . 370 143	References—Rodecap, 354,056. Dec. 21, 1886.	No references.	
References—4,029 of 1882. English.	Mercer, 354,337. Dec. 14, 1886.	398,159 Jeffery, Thomas B., Feb. 19, 1889, 380 149	
4,192 of 1883. "	377,869 Stillman, Charles F., Feb. 14, 1888, . . . 371 144	References—8,698 of 1884. English.	
8,019 of 1885. "	References—Curtiss, 348,891. Sept. 7, 1886.	15,995 of 1884. "	
	Fay, 343,165. June 8, 1886.	7,070 of 1884. "	
	Zanger, 352,503. Nov. 9, 1886.	8,698 of 1884. "	
	Whitmore, 356,388. Jan. 18, 1887.	Conley, 378,496. Feb. 28, 1888.	
378,693 Latta, Emmit G., Feb. 28, 1888, 371 144	References—Lambach, 86,235. Jan. 26, 1869.	O'Brien, 372,428. Nov. 1, 1887.	
References—Lambach, 86,235. Jan. 26, 1869.	15,590 of 1884. English.	398,455 Schubert, Gustav A., Feb. 26, 1889, . . . 381 149	
	Lewis, 286,835. Oct. 16, 1883.	No references.	
	Soule, 99,470. May 25, 1869.	399,190 Foster William C., and Merritt, Henry W., March 5, 1889, . . . 381 149	
379,017 Latta, Emmit G., March 6, 1888, 372 144	References—Rose, 359,098. March 8, 1887.	References—Rose, 359,098. March 8, 1887.	
References—10,610 of 1885. English.	400,074 Gendron, Peter, March 26, 1889, 382 149		
379,270 Elliott, Sterling, March 13, 1888, 372 145	References—Marble, 185,401. Dec. 19, 1876.		
References—Howe, 344,529. June 29, 1886.	Salamon, 236,372. Jan. 4, 1881.		
380,770 Schiermeyer, Henry W., April 10, 1888, . . . 373 145	Morris, 238,245. March 1, 1881.		
References—Jones, 344,449. June 29, 1886.	Poulson & Schneider, 366,684. July 19, 1887.		
Stafford & Roffington, 91,379. June 15, 1869.	Bean, 245,434. Aug. 9, 1881.	400,091 Kohler, Frederick E., March 26, 1889, . . . 383 150	
381,144 Kohler, Frederick E., April 17, 1888, . . . 373 145	References—Unzicker, 355,038. Dec. 28, 1886.	Quinn, 159,770. Feb. 16, 1875.	
References—Hart, 363,518. May 21, 1883.	Slutz, 381,590. April 24, 1888.	Slutz, 381,590. April 24, 1888.	
Copeland, 371,432. Oct. 11, 1887.	Hart, 385,620. July 3, 1888.		
381,590 Slutz, Marion, April 24, 1888, . . . 374 145	403,406 Abbott, Francis M., May 14, 1889, . . . 383 150		
References—Long, 337,774. March 9, 1886.	No references.		
Warwick, 322,221. July 14, 1885.	408,634 Rudy, William H., Aug. 6, 1889, 383 150		
381,763 Dearlove, Joseph H., and Thresher, Harry, April 24, 1888, . . . 374 145	No references.		
References—Serrell, 87,713. March 9, 1869.	408,745 Pool, Francis W., Aug. 13, 1889, 384 150		
Lawson, 345,851. July, 20, 1886.	References—Pool, 396,892. Jan. 29, 1889.		
Mercer, 354,337. Dec. 14, 1886.			

- 411,790 Downs, Allison O., Oct. 1, 1889, 384 150  
 References—5,284 of 1881. English.  
     1,001 of 1881. "  
     796 of 1883. "  
     12,678 of 1885. "  
     11,344 of 1885. "
- 414,960 White, Frederick, Nov. 12, 1889, 385 151  
 References—Smith, 249,207. Nov. 8, 1881.  
     Seagrave, 169,302. Oct. 26, 1875.  
     2,174 of 1882. English.  
     5,993 of 1884. "
- 416,591 Gibbs, Frederick H., Dec. 3, 1889, 386 151  
 References—Hickley & Culver, 213,109. March 11,  
     1879.  
     Weston & Smith, 357,110. Feb. 1, 1887.  
     La Casse, 372,031. Oct. 25, 1887.  
     Schluter, 231,622. Aug. 24, 1880.  
     Schluter, 232,620. Sept. 28, 1880.  
     Trautman, 236,620. Sept. 28, 1880.  
     Unzicker, 257,415. May 2, 1882.
- 417,428 Levin, Leonhard, Dec. 17, 1889, 386 151  
 References—Britton, 353,917. Dec. 7, 1886.  
     Richard, 252,624. Jan. 24, 1882.  
     Emerson, 99,546. Feb. 8, 1870.  
     Latta, 377,204. Jan. 31, 1880.  
     Cummings, 28,630. June 5, 1860.
- 417,483 Hammarstrom, Olof, Dec. 17, 1889, 386 151  
 References—1,607 of 1880. English.  
     5,682 of 1881. "  
     349 of 1884. "  
     9,773 of 1884. "  
     Auld, 289,746. Dec. 4, 1883.  
     8,507 of 1886. English.
- 418,005 Gendron, Peter, Dec. 24, 1889, 387 152  
 No references.
- 418,963 Stoner, Allen M., Jan. 7, 1890, 388 152  
 References—La Casse, 327,979. Oct. 6, 1875.  
     Donkel, 384,134. June 5, 1888.  
     Abbott, 403,406. May 14, 1889.
- 420,826 Newhouse, Frederick, Feb. 4, 1890, 388 152  
 References—Hart, 339,765. April 13, 1886.
- 429,715 Beer, Carl, and Bond, Richard,  
     June 10, 1890, . . . . . 389 152  
 No references.
- 430,107 Brock, William E., June 17, 1890, 389 152  
 References—Malby, 110,057. Dec. 13, 1870.  
     Giles, 252,455. Jan. 17, 1882.  
     Beaupain, 295,333. March 18, 1884.
- 431,342 Fournier, Philander, July 1, 1890, 389 153  
 References—Cardona, 302,098. July 15, 1884.
- 433,889 Clouse, Joseph N., Aug. 5, 1890, 390 153  
 References—Work, 314,160. March 17, 1885.
- 437,223 McCarthy, Oxley, Sept. 30, 1890, 390 153  
 References—Griffiths, 338,151. March 16, 1886.  
     Muehle, 96,466. Nov. 2, 1869.  
     Harrington, 324,317. Aug. 11, 1885.  
     Lawson, 345,851. July 20, 1886.  
     Interference with application of George A. Mosher. Decision favorable to McCarthy.
- 439,915 Weston, Irving A., Nov. 4, 1890, 391 153  
 No references.
- 442,345 Worms, Eugene, and Zwierzchowski, Alexander S., Dec. 9, 1890, . . . 391 153  
 References—Golding, 400,204. March 26, 1889.
- 444,620 Rouveyre, Camillo, A., Jan. 13,  
     1891, . . . . . 392 153  
 References—Quatremain, 287,960. Nov. 6, 1883.  
     Davies, 276,786. May 1, 1883.  
     Paessler, 311,084. Jan. 20, 1885.  
     Andrews, 310,868. Jan. 20, 1885.  
     Dutrow, 277,246. May 8, 1883.
- 446,670 Elliott, Sterling, Feb. 17, 1891, . . . 392 154  
 References—Deering, 309,933. Dec. 30, 1884.  
     Spencer, 270,913. Jan. 23, 1883.  
     Harper, 91,438. Jan. 15, 1869.  
     White, 336,968. March 2, 1886.  
     Rankin, 89,341. April 27, 1866.  
     Humber, 305,690. Sept. 23, 1884.  
     Bacon, 249,447. Nov. 15, 1881.  
     Hammelmann, 225,010. March 2, 1880.  
     2,148 of 1882. English.  
     1,956 of 1877. "  
     11,727 of 1886. "
- 446,671 Elliott, Sterling, Feb. 17, 1891, . . . 393 154  
 References—Howe, 344,520. June 29, 1886.  
     Andrews, 310,868. Jan. 20, 1885.  
     Overman & Hadley, 270,691. Jan. 16,  
     1883.  
     Ellis, 280,299. June 26, 1883.  
     Trautman, 232,620. Sept. 28, 1880.  
     Deering, 309,933. Dec. 30, 1884.  
     Silver, 250,589. Dec. 6, 1881.  
     2,139 of 1882. English.  
     15 of 1885.  
     Griffiths, 338,151. March 16, 1886..
- 449,111 Edelstein, Joseph, March 31, 1891, 394 155  
 References—Watson, 363,189. May 17, 1887.  
     Ackerman, 205,330. June 25, 1887.  
     Fishwick, 184,852. Nov. 28, 1876.
- 449,498 Schieding, Andrew W., March 31,  
     1891, . . . . . 394 155  
 References—Andrews, 92,928. July 27, 1869.  
     Joules, 216,190. June 3, 1879.  
     Harper, 91,438. June 15, 1860.  
     Gowday, 300,359. June 17, 1884.  
     137 of 1869. English.  
     6,027 of 1830. "  
     Rodecap, 354,656. Dec. 21, 1886.
- 456,590 Newhouse, Frederick, July 28,  
     1891, . . . . . 394 155  
 References—Healey, 341,237. May 4, 1886.  
     Monnie & Filliez, 301,310. April 19, 1887.  
     Woodward & Overman, 428,991. May 27, 1890.
- 456,625 Malfait, Frederic, July 28, 1891, 395 155  
 References—4,671 of 1879. English.  
     4,817 of 1883. "  
     15,779 of 1888. "  
     5,213 of 1889. "  
     10,610 of 1885. "  
     9,101 of 1888. "
- 459,682 Evans, Walter A., and Cowan,  
     Thomas, Sept. 15, 1891, . . . . . 395 155  
 References—Ackerman, 205,330. June 25, 1878.
- 461,207 Kessler, Frank J., Oct. 13, 1891, 396 155  
 References—Gendron, 365,377. June 28, 1887.  
     Gendron, 418,005. Dec. 24, 1889.
- 461,289 Swanson, Ludvig, Oct. 13, 1891, 396 155  
 No references.
- 462,086 Newhouse, Frederick, Oct. 27,  
     1891, . . . . . 396 155  
 References—Gendron, 418,005. Dec. 24, 1889.  
     Shoening, 159,047. Jan. 26, 1875.  
     Beer & Bond, 429,715. June 10, 1890.  
     Clouse, 433,889. Aug. 5, 1890.
- 464,448 Beck, Samuel H., Dec. 1, 1891, 397 156  
 References—Whitman, 416,699. Dec. 3, 1889.  
     Powell, 365,488. June 28, 1887.

P.	C.	P.	C.
Four Wheels, Hand Propelled.			
9,054 Hodge, Nehemiah, June 22, 1852, . . .	398 189	108,967 Christian, Andrew, Nov. 8, 1870, . . .	403 191
No references.		References—Allgaier, 89,964. May 11, 1869. Eastman, Z. Oct. 9, 1866. Crandall, 79,553. July 7, 1868.	
16,060 Kruse, Henry, Nov. 11, 1856, . . .	398 189	125,451 Gregg, Solon A., April 9, 1872, . . .	404 191
No references.		No references.	
53,572 Chase, William K., April 3, 1866, 398 189		126,900 Palmer, George T., May 21, 1872, . . .	404 191
No references.		References—Elder, R. G., 99,421. Feb. 1, 1870. Crandall & Conover, 31,872. April 2, 1861.	
79,553 Crandall, Benjamin P., July 7, 1868, . . .	398 189	134,176 Weishaar, Ignatz, Dec. 24, 1872, . . .	404 191
References—Flinn, William, Aug. 20, 1867. Crandall & Conover, 31,872. April 2, 1861.		No references.	
3,207 } Crandall, Benjamin P., (R.) Nov. 24, 1868, . . .	399 189	138,486 Dismar, George, May 6, 1873, . . .	405 191
79,553 } 24, 1868, . . .	399 189	No references.	
No references.		151,954 Bezent, Thomas, June 16, 1874, . . .	405 191
9,096 } Crandall, Benjamin P., (R.) Feb. 24, 1880, . . .	399 190	References—Gardner & Trageser, 87,769. March 16, 1869. McGilvray, 149,290. June 24, 1873.	
79,553 } 24, 1880, . . .	399 190	157,547 Schneider, Charles, Dec. 8, 1874, . . .	405 191
No references.		References—Hasting, 116,527. June 27, 1871. Woodbury, 48,008. May 30, 1865.	
85,337 Skidmore, Samuel M., Dec. 29, 1868, . . .	399 190	160,487 Umstead, William O., March 2, 1875, . . .	406 192
No references.		References—Sabin, 104,888. June 28, 1870. Pettington, 109,447. Nov. 22, 1870. Chase, 53,572. April 3, 1866. Rhodes, 76,814. April 14, 1868. Forsyth, 101,993. April 19, 1870.	
89,064 Allgaier, John, May 11, 1869, . . .	399 190	160,575 Crandall, Jesse A., March 9, 1875, . . .	406 192
References—Perry, T. Feb. 27, 1869. Piper, E. June 10, 1840. Libbey, H. W., 88,492. March 30, 1869. Case, J. M., 88,366. March 30, 1869. Drew, H. C. and J. W. Feb. 27, 1866. Coach Makers' Magazine, 1865, pages 88 and 89.		References—Christian, A., 108,957. Nov. 8, 1870.	
91,123 Hall, William S., June 8, 1869, . . .	400 190	167,517 Flack, John J., Sept. 7, 1875, . . .	407 192
No references.		No references.	
92,273 Crandall, Benjamin P., July 6, 1869, . . .	401 190	182,045 Warpenberg, William, Sept. 12, 1876, . . .	407 192
No references.		References—Crandall, 160,575. March 9, 1875.	
92,554 Wolfkill, Henry, July 13, 1869, . . .	401 190	198,627 Kerr, Christopher C., Dec. 25, 1877, . . .	407 192
References—Longett, A., 36,160. Aug. 12, 1862. Jones, A. July 28, 1842. Fisher, D. S., 65,199. May 28, 1867.		References—Budd, 130,840. Aug. 27, 1872.	
93,886 Dillaha, John G., Aug. 17, 1869, . . .	401 190	203,968 Watt, Sern P., May 21, 1878, . . .	408 192
No references.		References—Jones, 99,947. June 8, 1869.	
94,039 Simon, Xavier, Aug. 24, 1869, . . .	401 190	204,674 Lewis, Andrew, June 11, 1878, . . .	408 192
No references.		References—Erd, 114,783. May 11, 1871.	
94,992 Barr, Robert J., Sept. 21, 1869, . . .	402 190	205,330 Ackermann, Henry, June 25, 1878, . . .	408 192
No references.		References—Ferguson, 88,151. March 23, 1869. Guild, 99,837. June 1, 1869.	
95,701 Lutteke, Peter, Oct. 12, 1869, . . .	402 190	221,255 Steel, Robert, Nov. 4, 1879, . . .	408 192
References—Crandall, 79,553. July 7, 1868. Kellner, L., 19,092. Jan. 12, 1858.		No references.	
99,166 Crandall, Jesse A., Jan. 25, 1870, . . .	402 190	221,917 Hasenpflug, Henry, Nov. 25, 1879, . . .	409 192
References—Crandall, 79,553. July 7, 1868.		References—Warpenberg, 182,045. Sept. 12, 1876. Weishaar, 134,176. Dec. 24, 1872. Smith & Walker, 91,682. June 22, 1869. Bombay, 71,574. Dec. 3, 1867.	
99,421 Elder, R. G., Feb. 1, 1870, . . .	403 190	236,454 Pullen, Joseph, Jan. 11, 1881, . . .	409 192
References—Skidmore, S. M. Dec. 29, 1868. Christian, A., 81,603. Sept. 1, 1868. Samuels, I., 87,205. Feb. 23, 1869. Crandall, 79,553. July 7, 1868.		References—Allen, 94,057. Aug. 24, 1869.	
99,567 Haussknecht, Gustavus L., Feb. 8, 1870, . . .	403 190	247,078 Lowden, George, Sept. 13, 1881, . . .	410 192
References—Morris, J. J. Aug. 28, 1866. Jackson, P. H. Aug. 7, 1855. Figures 220, 240, 507 and 515. Mechanical movements. Case, J. M., 88,366. March 30, 1869. Robinson, D. T., 86,251. Jan. 26, 1869.		References—Blake, 84,163. Nov. 17, 1869. Lowden, 96,128. Oct. 26, 1869. Thompson, 2,372 of 1879. English.	
103,895 Kilner, George, and Simmons, Frances H., June 7, 1870, . . .	403 191	248,737 Grubb, William H., Oct. 25, 1881, . . .	410 193
No references.		References—Post, 186,615. Jan. 23, 1877. Myers, 87,355. March 2, 1869. Davidson, 188,866. March 27, 1877.	

- P. C.
- 275,979 Blume, Herman, April 17, 1883, . . . 410 193  
References—Janson, 115,212. May 23, 1871.  
Brown, 60,335. Dec. 11, 1866.
- 285,035 Holland, Wiley S., Sept. 18, 1883, . . . 411 193  
References—Gunn, 233,671. Oct. 26, 1880.  
Neale, 68,092. Dec. 21, 1869.  
McClure, 144,551. Nov. 11, 1873.
- 287,825 Grahsler, Michael, Nov. 6, 1883, . . . 411 193  
References—Wolfkill, 92,554. July 13, 1869.  
Higley, 201,179. March 12, 1878.  
Crandale, 99,160. Jan. 25, 1870.  
Lowden, 247,078. Sept. 13, 1881.
- 291,069 Mikkelsen, Niels, Jan. 1, 1884, . . . 411 193  
No references.
- 292,179 Riley, Christian F., Jan. 22, 1884, . . . 412 193  
No references.
- 293,536 Staples, John M., Feb. 12, 1884, . . . 412 193  
No references.
- 302,498 Kelling, John, Jr., and Ishan,  
Lewis S., July 22, 1884, . . . . . 413 193  
References—Hull & O'Rear, 259,853. June 20, 1882.  
Zeller, 233,903. Nov. 2, 1880.  
Dodge, 248,720. Oct. 25, 1881.  
Wolfkill, 92,554. July 13, 1869.
- 303,499 Denny, John S., Aug. 12, 1884, . . . 413 194  
References—Simon, 93,915. Aug. 17, 1869.  
Gardner & Trageser, 87,769. March 16,  
1869.  
Bryson, 256,120. April 11, 1882.
- 304,960 Rodine, Charles A. and Malmgren,  
John G., Sept. 9, 1884, . . . . . 414 194  
References—Flack, 167,517. Sept. 7, 1875.  
Chase, 53,572. April 3, 1866.  
Coleman, 95,325. Sept. 28, 1869.  
Gardner & Trageser, 87,769. March 16,  
1869.  
Brady, 244,373. July 19, 1881.  
2,969 of 1868. English.
- 327,084 Hennesy, Thomas F., Sept. 29,  
1885, . . . . . 414 194  
References—Kneip, 222,506. Dec. 9, 1879.  
Edmonds, 264,674. Sept. 19, 1882.  
Fancher, 227,746. May 18, 1880.
- 344,449 Jones, Septimus W., June 29,  
1886, . . . . . 415 194  
References—Crandall, 160,575. March 9, 1875.  
Gregg, 125,451. April 9, 1872.  
Barr, 94,092. Sept. 21, 1869.  
Holland, 285,035. Sept. 18, 1883.  
Avery, 146,159. Jan. 6, 1874.
- 352,698 Lhoest, Emile & Jules, Nov. 16,  
1886, . . . . . 415 194  
References—Gardner & Trageser, 87,769. March 16,  
1869.  
Harper, 91,438. June 15, 1869.  
Voch, (R.) 9,052. Jan. 20, 1880.  
Shelburn, 259,222. June 6, 1882.  
Hanchett et al., 109,408. Nov. 22, 1870.
- 354,649 Mohr, Luie F., Dec. 21, 1886, . . . 416 194  
References—Houff, 245,499. Aug. 9, 1881.  
Riley, 292,179. Jan. 22, 1884.  
McClure, 144,551. Nov. 11, 1873.
- 375,961 Steffa, James F., Jan. 3, 1888, . . . 416 194  
References—Gregg, 125,451. April 9, 1872.  
Warpenberg, 182,045. Sept. 12, 1876.  
Pullen, 236,454. Jan. 11, 1881.  
Gunn, 233,071. Oct. 26, 1880.  
Baines, 351,050. Oct. 19, 1886.
- P. C.
- 390,662 Goble, Truman L., Oct. 9, 1888, . . . 417 195  
References—16,711 of 1886. English.  
Thompson, 90,797. June 1, 1869.  
Edwards, 256,303. April 11, 1882.
- 391,417 Lucas, Andrew H., Oct. 23, 1888, . . . 418 195  
References—Lindon, 88,574. April 6, 1869.
- 391,499 Wolf, Francis M., Oct. 23, 1888, . . . 418 195  
References—Post, 285,513. Sept. 25, 1883.  
Buchmann, 95,648. Oct. 12, 1869.  
Higham, 218,968. Aug. 26, 1879.
- 399,110 Yingst, Cyrus, March 5, 1889, . . . 419 195  
References—Schneider, 319,329. June 2, 1885.
- 409,581 Harrell, Amaziah E., Aug. 20,  
1889, . . . . . 419 196  
No references.
- 424,965 Ferson, James L., April 8, 1890, . . . 420 196  
No references.
- 433,962 Rauhut, Jochan F., Aug. 12, 1890, . . . 420 196  
References—Grahsler, 287,825. Nov. 6, 1883.  
Kneip, 222,506. Dec. 9, 1879.
- 435,665 Minmix, William H., Sept. 2,  
1890, . . . . . 420 196  
References—Brown's Mechanical Movements, page 36,  
figure 13.
- 
- Four Wheels, With Two or More Seats.
- Bolton, John, Jr., Sept. 29, 1804, . . . . . 420 188  
No references.
- 88,815 Skidmore, Samuel M., April 13,  
1869, . . . . . 421 188  
References—Skidm. re, 85,337. Dec. 29, 1868.  
Gleason, P. T. May 5, 1868.  
Derrier, L., 74,038. Feb. 4, 1868.
- 155,270 Thiessen, Henry, Sept. 22, 1874, . . . 421 188  
No references.
- 222,506 Kneip, Anton, Dec. 9, 1879, . . . 422 188  
References—Schneider, 157,547. Dec. 8, 1874.  
Atherton, 92,089. July 20, 1869.  
Whitehead, 194,980. Sept. 11, 1877.
- 243,476 Vreeland, Aaron, June 28, 1881, . . . 422 188  
No references.
- 245,829 Hopwood, John, Aug. 16, 1881, . . . 422 188  
References—Hill, 88,872. April 13, 1869.  
Lawrence, 89,543. April 27, 1869.
- 249,207 Smith, Budd, Nov. 8, 1881, . . . 423 188  
References—Spofford & Raffington, 91,379. June 15,  
1869.  
Hanchett, et al., 109,408. Nov. 22, 1870.  
Seagrave, 169,302. Oct. 26, 1875.
- 259,222 Shelburne, Cephas, June 6, 1882, . . . 424 189  
References—Hanchett et al., 109,408. Nov. 22, 1870.  
Baldwin, 120,840. Nov. 14, 1871.
- 287,566 O'Brien, Thomas, Oct. 30, 1883, . . . 424 189  
References—Hill, 253,286. Feb. 7, 1882.
- 342,934 Schulze, Johann H., June 1, 1886, . . . 425 189  
References—Staples, 203,536. Feb. 12, 1884.  
Rodine & Malmgren, 304,960. Sept. 9,  
1884.  
Ellis & Norman, 305,061. Sept. 16, 1884.
- 397,015 McCoy, Joseph, Jan. 29, 1889, . . . 425 189  
References—Lowden, 247,078. Sept. 13, 1881.  
Haussknecht, 99,567. Feb. 8, 1870.  
Jennings, 94,215. Aug. 31, 1869.  
Clime, 86,906. Feb. 16, 1869.

P.	C.	P.	C.
Avery, 146,159. Jan. 6, 1874. Martin, 116,205. June 20, 1871. Trautman, 248,531. Oct. 18, 1881. Hopwood, 245,829. Aug. 16, 1881.		199,409 Buchanan, Alonzo M., Jan. 22, 1878, . . . . .	431 183
Four Wheels, Foot Propelled.		References—Gregg, 125,451. April 9, 1872. Maynard, 97,421. Nov. 30, 1869. Katon & Bonfils, 186,136. Jan. 9, 1877. McMillian, 91,035. June 8, 1869. Dold, 92,524. Aug. 10, 1865. Roberts, 25,139. Aug. 16, 1859. Holske & Babbit, 91,018. June 8, 1869. Janson, 115,212. May 23, 1871.	
42,678 Moores, William C., May 10, 1864, 426 181 No references.		200,016 Baker, Elbridge, Feb. 5, 1878, . . . . .	431 183
47,220 Quinn, William, April 11, 1865, 426 181 References—Bogel, H., 35,583. June 17, 1862. Kipp & Lawrence. July 14, 1857.		References—Metzgar, 89,679. May 4, 1869. Talbot, 100,056. Feb. 22, 1870.	
64,820 Wilkinson, John G., May 14, 1867, 426 181 No references.		233,671 Gunn, Daniel A., Oct. 26, 1880, . . . . .	432 183
74,058 Derozier, Louis, Feb. 4, 1868, . . . . . 426 181 No references.		References—Goodman, 44,256. Sept. 13, 1864.	
86,906 Clime, John C., Feb. 16, 1869, . . . . . 427 182 References—Jackman, Edwin T. (Rejected case.) Filed Jan. 31, 1861.		238,915 Karlss, Helander, March 15, 1881, 432 183 References—Gunn, 233,671. Oct. 26, 1880. Hall, 91,123. June 8, 1869. Hares, 92,306. July 6, 1869. Allgaier, 89,964. May 11, 1869. Jones, 17,970. May 4, 1857. Flack, 167,517. Sept. 7, 1875. Crother & Bergeron, 159,564. Feb. 9, 1875. 3,579 of 1877. English. 3,615 of 1877.	
87,245 Christian, Andrew, and Reinhart, John, Feb. 23, 1869, . . . . . 427 182 References—Scheen, Joseph, 63,433. April 2, 1869. Crandall, Jesse. (Rejected case.) Filed Dec. 19, 1853.		248,998 Burstow, Edward, Nov. 1, 1881, 433 183 No References.	
89,744 Dugas, L. E., May 4, 1869, . . . . . 427 182 References—Derozier, 74,058. Feb. 4, 1868.		256,303 Edwards, Elias, April 11, 1882, . . . . .	433 183
91,035 McMillian, James W., June 8, 1869, 427 182 No references.		References—Bush, 155,569. Oct. 6, 1874. Hanchett et al, 109,408. Nov. 22, 1870. Fisher, 65,199. May 28, 1867. Espernandieu, 226,504. April 13, 1880. Price, 19,947. April 13, 1858. Brown, 25,472. Dec. 20, 1857.	
92,106 Shanabrook, D. S., June 29, 1869, 428 182 References—Read, George B. (Rejected case.) Filed Sept. 12, 1854. Drew, James H. (Rejected case.) Filed Feb. 11, 1864.		261,411 Van Meter, Joseph E., and Hes- ser, Benjamin F., July 18, 1882, . . . . .	434 183
92,132 Westphal, Frederick, June 29, 1869, 428 182 References—Plumb, Z. Nov. 5, 1867. Perry, S., 87,287. Feb. 23, 1869. Samuels, Isaac, 87,205. Feb. 23, 1869.		References—McGilvray, 140,290. June 24, 1873. Spofford & Raffington, 91,379. June 15, 1869. Baltz, 212,884. March 4, 1879.	
92,668 Swank, Daniel, July 13, 1869, . . . . . 428 182 No references.		263,857 Church, James, Sept. 5, 1882, . . . . .	434 183
94,899 Landry, Norbert, Sept. 14, 1869, . . . . . 429 182 No references.		No References.	
106,780 Clime, John C., Aug. 30, 1870, . . . . . 429 182 References—Bradford, C. K., 83,035. Oct. 13, 1868. Jones, E. A., 90,947. June 8, 1869.		269,076 Lüdeke, Eduard, Dec. 12, 1882, 435 184 References—Lindon, 88,574. April 6, 1869. Atherton, 92,680. July 20, 1869. • Perkins, 231,600. Aug. 24, 1880. Knudson, 177,854. May 23, 1876.	
109,408 Hanchett, Daniel, Daney, John C., and Stuart, Reuben, Nov. 22, 1870, . . . . . 429 182 References—Perry, S., 87,287. Feb. 23, 1869.		273,007 Baker, James, Feb. 27, 1883, . . . . .	435 184
112,646 Staudt, Manassa, March 14, 1870, 429 182 References—Perry, S., 87,287. Feb. 23, 1869. Haussknecht, G. L., 99,567. Feb. 8, 1870.		References—Gill & Alexander, 227,685. May 18, 1880. Edwards, 256,323. April 11, 1882. Giles, 236,573. Jan. 11, 1881. Kneip, 222,506. Dec. 9, 1879.	
116,205 Martin, Michael, June 21, 1871, . . . . . 430 182 References—Griffin, J. June 11, 1861. Dewy, A., 47,282. April 18, 1865. Williams, T. April 2, 1861.		293,837 Woodruff, John W., Feb. 19, 1884, . . . . .	436 184
124,500 Martin, David, March 12, 1872, . . . . . 430 182 No references.		No References.	
125,273 Clime, John C., April 2, 1872, . . . . . 430 182 References—Christian, (R.). Sept. 14, 1869.		296,776 Pesenecker, Albert, April 15, 1884, 436 184 References—Katon & Bonfils, 186,136. Jan. 9, 1877. Harper, 91,438. June 15, 1869. Gunn, 233,671. Oct. 26, 1880.	
146,159 Avery, George, Jan. 6, 1874, . . . . . 431 183 References—Witty, C. March 16, 1869. Weihaar, I., 134,176. Dec. 24, 1872. Guild, J., 90,837. June 1, 1869. Swank, D., 92,668. July 13, 1869.		305,698 Lunsford, Robert B., Sept. 23, 1884, . . . . .	436 184
		References—Derozier, 74,058. Feb. 4, 1868. Goodman, 44,256. Sept. 13, 1864. Webster, 109,774. Nov. 9, 1875. Reinhart, 95,515. Oct. 5, 1869. Karlss, 238,915. March 15, 1881. Bush, 146,340. Jan. 13, 1874. Thomas, 266,401. Oct. 24, 1882.	

P.	C.
321,642 Ruggaly, Adam, July 7, 1885, . . . . .	437 184
References—Peseneker, 296,776. April 15, 1884.	
Whiting, 250,316. Nov. 29, 1881.	
Katon & Bonfils, 186,136. Jan. 9, 1877.	
Buchanan, 199,409. Jan. 22, 1878.	
327,125 Vreeland, Aaron, Sept. 29, 1885, . . . . .	437 184
No references.	
341,736 De Sabla, Theodore J., May 11, 1886, . . . . .	437 184
References—Wortmann, 93,030. July 27, 1869.	
Denton, 279,356. June 12, 1853.	
378,631 Stoner, Allen M., Feb. 28, 1888, . . . . .	438 185
No references.	
384,134 Donkel, Lloyd H., June 5, 1888, . . . . .	438 185
References—Mercer, 354,337. Dec. 14, 1886.	
390,017 Hagan, John, Sept. 25, 1888, . . . . .	439 185
References—Jenne, 287,939. Nov. 6, 1883.	
Forsyth, 101,993. April 19, 1870.	
4,957 of 1882. English.	
Joule, 216,100. June 3, 1879.	
391,100 Weeks, Elias, Oct. 16, 1888, . . . . .	439 185
References—Jennings, 94,215. Aug. 31, 1869.	
Ackermann, 205,330. June 25, 1878.	
Hanchett et al., 109,408. Nov. 22, 1870.	
394,890 Staebel, Gustav, Dec. 18, 1888, . . . . .	440 185
References—Kiley, 292,179. Jan. 22, 1884.	
McCully, 87,275. Feb. 23, 1869.	
397,144 Sam, Hezekiah K., Feb. 5, 1889, . . . . .	440 185
References—Hanchett et al., 109,408. Nov. 22, 1870.	
Hall, 16,919. March 31, 1857.	
Moreland, 127,095. May 21, 1872.	
Parker, 157,927. Sept. 21, 1875.	
Gormuly, 314,236. March 24, 1885.	
12,475. German.	
408,430 Potter, Jonas, Aug. 6, 1889, . . . . .	442 186
References—Newton, 231,431. Aug. 17, 1880.	
Staples, 293,536. Feb. 12, 1884.	
422,087 Loser, Charles H., Feb. 25, 1890, . . . . .	442 186
References—Kenyon, 392,866. Nov. 13, 1888.	
432,312 Hopkinson, Frederick, and Leonard, C., July 15, 1890, . . . . .	443 186
No references.	
442,663 Elliott, Sterling, Dec. 16, 1890, . . . . .	444 187
References—Whitaker, 145,264. Dec. 2, 1873.	
Hanchett et al., 109,408. Nov. 22, 1870.	
Smith, 351,942. Nov. 2, 1856.	
Unzicker, 257,415. May 2, 1882.	
Buchanan, 199,409. Jan. 22, 1878.	
Wiggins, 358,178. Feb. 22, 1887.	
Overman, 381,274. April 17, 1888.	
Morgan, 355,620. Jan. 4, 1887.	
Gregory, 43,197. June 21, 1864.	
2,062 of 1884. English.	
11,103 of 1884. "	
Murdoch, 29,093. July 10, 1860.	
Murdoch, 17,337. May 10, 1857.	
Singer & Lee, 382,837. May 15, 1888.	
White, 336,668. March 2, 1886.	
15,342 of 1884. English.	
443,890 Belyea, James C., Dec. 30, 1890, . . . . .	445 187
References—Crandall, 99,166. Jan. 25, 1870.	
Perkins, 223,241. Jan. 6, 1880.	
Repetti, 96,963. Nov. 16, 1869.	
447,246 Jamison, Thomas W., Feb. 24, 1891, . . . . .	445 187
No references.	
456,632 Mosher, Samuel E., July 28, 1891, . . . . .	445 188
References—618 of 1881. English.	
Blanchard, Dec. 28, 1825.	

P.	C.
Lippy & Hughes, 261.005.	July 11, 1882.
Grout, 254.639.	March 7, 1882.
<hr/>	
Saddles.	
Ambler, George B., June 8, 1869,	446 329
—4,321 of 1818. English.	
McClellan, Army Saddle.	
Gibson, Jacob H., June 2, 1874,	446 329
Huntsman, 86,545. Feb. 2, 1869.	
Smith, John S., Aug. 3, 1880,	446 329
—3,689 of 1877. English.	
Vreeland, 172,213. Jan. 11, 1876.	
Salamon, Nahum, Jan. 4, 1881,	446 329
Fowler, 224,165. Feb. 3, 1880.	
Veeder, Curtis H., April 5, 1881,	447 329
Salomon, 8,536. Nov. 18, 1851.	
Harrington, John, May 3, 1881,	447 329
es.	
Unzicker, Otto, June 7, 1881,	448 329
—1,449 of 1877. English.	
3,564 of 1879 "	
Veeder, Curtis H., July 19, 1881,	448 330
es.	
Interference with application of R. N.	
Applegate. Decision favorable to Veeder.	
Veeder, Curtis H., Jan. 10, 1882,	448 330
—3,849 of 1879. English.	
4,321 of 1818. "	
1,647 of 1879. "	
Harrison, Thomas T., Jan. 31,	
882, . . . . .	449 330
—Bacon, 249,447. Nov. 15, 1881,	
Rintelman, August, Jan. 31, 1882,	449 330
es.	
Burley, Franklin G., Feb. 14,	
882, . . . . .	449 330
—Van Horn. June 26, 1835.	
Fritchard, May 3, 1832.	
Veeder, 239,629. April 5, 1881.	
White, Joseph, May 23, 1882,	450 330
es.	
Ballie-Hamilton, Charles R., Jan.	
3, 1883, . . . . .	450 330
—Hosea, 228,996. June 22, 1880.	
McGann, 230,428. July 27, 1880.	
Merrill, 249,853. Nov. 22, 1881.	
Burstow, 248,998. Nov. 1, 1881.	
Schmetzer, Louis, Jan. 30, 1883,	451 330
es.	
Wilson, Joseph L., March 20,	
883, . . . . .	451 331
—McClelland, 162,670. April 27, 1875.	
Hill, Edward K., April 17, 1883,	451 331
—Fowler, 248,441. Oct. 18, 1881.	
Veeder, 252,280. Jan. 10, 1882.	
754 of 1881. English.	
5,268 of 1879. "	
Kirkpatrick, Thomas J., May 29,	
883, . . . . .	452 331
Dutton, 247,809. Oct. 4, 1881.	
Laubach, 86,235. Jan. 26, 1869.	
Fowler, 227,511. May 11, 1880.	

P. C.	P. C.
285,891 Hart, Harrie B., Oct. 2, 1883, . . . 452 331	Rintleman, 252,971, Jan. 31, 1882. Kelley, 304,827, Sept. 9, 1884.
References—Harrington, 240,905. May 3, 1881. Barnes, 244,109. July 12, 1881.	312,219 Pratt, Charles E., Feb. 10, 1885, 458 334
287,717 Potter, Samuel A., Oct. 30, 1883, 452 331	References—Eichling & Fitch, 281,675. July 24, 1883. Davis, 217,590. July 15, 1879. Gordon, 229,395. June 29, 1880.
References—Cooley, 261,136. July 18, 1882.	312,634 Hill, Sylvester B., Feb. 24, 1885, 459 334
288,849 Padmore, Casper P., Nov. 20, 1883, . . . . . 453 331	References—Burley, 253,504. Feb. 14, 1882. Lamplugh, 293,656. Feb. 14, 1884. Veeder, 252,280. Jan. 10, 1882. Rintleman, 252,971. Jan. 31, 1882.
289,272 Kirkpatrick, Thomas J., Nov. 27, 1883, . . . . . 453 331	314,142 Kirkpatrick, Thomas J., March 17, 1885, . . . . . 459 334
References—Kirkpatrick, 278,560. May 29, 1883. Rintleman, 252,971. Jan. 31, 1882. 1,169 of 1881. English. Veeder, 244,693. July 19, 1881.	References—Shire, 216,231. June 3, 1879. Duryea, 293,725. Feb. 19, 1884. Lillibridge, 294,645. March 4, 1884. Burley, 253,504. Feb. 14, 1882. Kirkpatrick, 278,560. May 29, 1883.
290,919 Peet, Benjamin F., Dec. 25, 1883, 454 332	314,701 McCoy, William D., March 31, 1885, . . . . . 460 335
No references.	References—Hale, 307,458. Nov. 4, 1884.
293,656 Lamplugh, James A., Feb. 19, 1884, . . . . . 454 332	316,702 Warwick, Thomas, April 28, 1885, . . . . . 460 335
References—Kirkpatrick, 278,560. May 29, 1883. Rintleman, 252,971. Jan. 31, 1882.	References—Duryea, 293,725. Feb. 19, 1884. Veeder, 244,693. July 19, 1881.
293,725 Duryea, Charles E., Feb. 19, 1884, 455 332	318,568 Knous, John, May 26, 1885, . . . 460 335
No references.	References—Britton & Thayer, 151,680. June 9, 1874.
294,645 Lillibridge, Freeman, March 4, 1884, . . . . . 455 332	318,789 Patton, John H., May 26, 1885, . . . 460 335
References—5,268 of 1879. English. 1,169 of 1881. Smith, 6,682. Aug. 28, 1849. Palmer & Beard, June 12, 1835. Spurgin, 63,622. March 26, 1857. 5,665 of 1879. English. 5,268 of 1879. 753 of 1881. “ 668 of 1881. “ Veeder, 252,280. Jan. 10, 1882. Schmetz, 271,524. Jan. 30, 1883. Burley, 253,504. Feb. 14, 1882.	References—Harrington, 240,905. May 3, 1881.
294,655 Mitchell, Oliver M., March 4, 1884, . . . . . 456 332	319,470 Drake, Franklin J., June 9, 1885, 461 335
No references.	References—Searle, (R.) 9,872. Sept. 13, 1881.
301,934 Stilwell, Henry McA., July 15, 1884, . . . . . 456 332	323,693 Lamplugh, James A., Aug. 4, 1885, . . . . . 461 335
No references.	No references.
304,334 Marble, George W., Sept. 2, 1884, 456 332	326,946 Burley, Franklin G., Sept. 29, 1885, . . . . . 461 335
References—Veeder, 252,280. Jan. 10, 1882. Schmetz, 271,524. Jan. 30, 1883. Burley, 253,504. Feb. 14, 1882.	References—Peet, 290,919. Dec. 25, 1883. 1,169 of 1881. English. 517 of 1882. “ 845 of 1882. “ Lawson, 90,563. May 25, 1860. Interference with application of Albert H. Overman. Decision favorable to Burley.
304,827 Kelley, William S., Sept. 9, 1884, 456 333	327,770 Copper, Luther S., Oct. 6, 1885, . . . 462 335
References—Hart, 285,891. Oct. 2, 1883. Rintleman, 252,971. Jan. 31, 1882.	No references.
307,120 Knous, John, Oct. 28, 1884, . . . 457 333	328,682 Humphreys, Robert E., Oct. 20, 1885, . . . . . 462 336
No references.	References—Hale, 307,458. Nov. 4, 1884. Kelley, 304,827. Sept. 9, 1884.
307,453 Hale, William H., Nov. 4, 1884, 457 333	328,863 Starbuck, Calvin T., Oct. 20, 1885, 462 336
References—Hart, 285,891. Oct. 2, 1883.	References—2,603 of 1875. English.
308,442 Stilwell, Henry M., and McNab, John C., Nov. 25, 1884, . . . . . 457 333	329,850 Overman, Albert H., Nov. 3, 1885, 462 336
References—Waldo, 284,781. Sept. 11, 1883. Wool, 98,901. Jan. 18, 1870. Randall, 23,497. April 5, 1859.	References—3,587 of 1881. English. 3,849 of 1879. “
310,823 Hillman, William, Jan. 13, 1885, 458 334	331,001 Overman, Albert H., Nov. 24, 1885, . . . . . 463 336
No references.	References—Lillibridge, 294,645. March 4, 1884. Monroe, 86,850. Feb. 9, 1869. Lamplugh, 293,656. Feb. 19, 1884. 1,568 of 1883. English. 1,616 of 1884. “
311,188 Knous, John, Jan. 27, 1885, . . . 458 334	332,658 Humphreys, Robert E., Dec. 15, 1885, . . . . . 463 336
No references.	References—Herrington, 240,905. May 3, 1881.
311,332 Lamplugh, James A., Jan. 27, 1885, . . . . . 458 334	
References—Peet, 290,919. Dec. 25, 1883.	

- 334,164 Clarke, Charles M., Jan. 12, 1886, 463 336  
 References—*Veeder*, 239,629. April 5, 1881.  
*Veeder*, 244,693. July 19, 1881.  
*Kirkpatrick*, 314,142. March 17, 1885.  
 334,469 Regnier, Theophile J., Jan. 19,  
 1886, . . . . . 464 336  
 References—1,616 of 1884. English.  
 335,246 Rothgiesser, Georg, Feb. 2, 1886, 464 336  
 No references.  
 337,171 Lillibridge, Freeman, March 2,  
 1886, . . . . . 464 337  
 References—*Veeder*, 252,280. Jan 10, 1882.  
*Veeder*, 239,629. April 5, 1881.  
*Veeder*, 244,693. July 19, 1881.  
 1,169 of 1881. English.  
*St. Nicholas Toy Co.'s Catalogue* (1879),  
 Chicago, Ill.  
 3,934 of 1879. English.  
*Lillibridge*, 294,645. March 4, 1884.  
*Shire*, 216,231. June 3, 1879.  
*Gibson*, 151,660. June 2, 1874.  
 Interference with application of Charles E.  
*Duryea*. Decision favorable to Lillibridge,  
 339,289 Hale, William H., April 6, 1886, 464 337  
 References—1,616 of 1884. English.  
 5,918 of 1883. “  
 1,568 of 1883. “  
*Latta*, 327,399. Sept. 29, 1885.  
*Knous*, 307,120. Oct. 28, 1884.  
 341,547 Beam, Roscoe, May 11, 1886, . . . . . 465 337  
 References—*Hale*, 307,458. Nov. 4, 1884.  
*McCoy*, 314,701. March 31, 1885.  
*Lamplugh*, 293,656. Feb. 19, 1884.  
*Lillibridge*, 294,645. March 4, 1884.  
 342,925 Payne, John, June 1, 1886, . . . . . 465 337  
 No references.  
 343,841 Overman, Albert H., June 15,  
 1886, . . . . . 465 337  
 References—*Rimbleman*, 252,971. Jan. 31, 1882.  
*Peet*, 290,919. Dec. 25, 1883.  
*Lamplugh*, 293,656. Feb. 19, 1884.  
 4,802 of 1883. English.  
 Interference with application of Franklin  
*G. Burley*. Decision favorable to Burley.  
 345,424 Fish, Warren L., July 13, 1886, 465 337  
 References—*Lillibridge*, 294,645. March 4, 1884.  
*Harrington*, 240,904. May 3, 1881.  
*Latta*, 327,399. Sept. 29, 1885.  
*Kelley*, 321,819. July 7, 1885.  
*McCoy*, 314,701. March 31, 1885.  
 644 of 1884. English.  
*Kirkpatrick*, 314,142. March 17, 1885.  
*Overman*, 331,001. Nov. 24, 1885.  
 796 of 1883. English.  
 350,868 Copper, Luther S., Oct. 12, 1886, 466 338  
 References—*Kelley*, 321,819. July 7, 1885.  
 351,251 Copper, Luther S., Oct. 19, 1886, 466 338  
 References—*Copper*, 327,770. Oct. 6, 1885.  
*Kelley*, 321,819. July 7, 1885.  
*McCoy*, 314,701. March 31, 1885.  
*Lillibridge*, 294,645. March 4, 1884.  
 352,090 Humber, Thomas, Nov. 2, 1886, 466 338  
 References—5,583 of 1883. English.  
*Humber*, 305,690. Sept. 23, 1884.  
*Lorenz*, 298,217. May 6, 1884.  
 354,907 Jeffery, Thomas B., Dec. 28, 1886, 467 338  
 References—*Duryea*, 293,725. Feb. 19, 1884.  
*Veeder*, 252,280. Jan. 10, 1882.  
*Hart*, 285,891. Oct. 2, 1883.  
 358,204 King, Homer A., Feb. 22, 1887, 467 339  
 References—*Latta*, 325,420. Sept. 1, 1885.  
*Hillman*, 311,320. Jan. 27, 1885.

- Waite, 345,465. July 13, 1886.  
*Duryea*, 293,725. Feb. 19, 1884.  
 360,162 King, Homer A., March 29, 1887, 467 339  
 No references.  
 360,588 Harrington, John, April 5, 1887, 467 339  
 References—16,475 of 1884. English.  
 362,500 Emsley, John W., May 10, 1887, 468 339  
 References—12,507 of 1884. English.  
*Churchill*, 248,700. Oct. 25, 1881.  
 131 of 1877. English.  
 364,075 Williamson, Catharine A., May  
 31, 1887, . . . . . 468 339  
 References—*Crowley*, 323,640. Aug. 4, 1885.  
*Lloyd*, 205,257. March 18, 1884.  
*Giles*, 252,455. June 17, 1882.  
*Hanna*, 121,362. Nov. 28, 1871.  
 266 of 1881. English.  
 1,649 of 1889. “  
*Pendegast*, 183,964. Oct. 31, 1876.  
*Hoffman*, 235,360. Dec. 14, 1880.  
 364,171 Harrington, John, May 31, 1887, 468 339  
 No references.  
 Interference with application of Harrie  
*B. Hart*. Decision favorable to Hart.  
 364,903 Cook, William, June 14, 1887, . . . . . 469 339  
 References—12,173 of 1884. English.  
 8,465 of 1884. “  
 3,833 of 1883. “  
*Copper*, 351,251. Oct. 19, 1886.  
*Overman*, 343,841. June 15, 1886.  
 365,074 Jeffery, Thomas B., June 21, 1887, 469 340  
 References—*Sawyer*, 203,076. April 30, 1878.  
*Jeffery*, 312,473. Feb. 17, 1885.  
*Hillman*, 241,301. May 10, 1881.  
*Overman*, 329,851. Nov. 3, 1885.  
*Latta*, 323,162. July 28, 1885.  
*Walace*, 318,149. May 19, 1885.  
 372,994 Veeder, Curtis H., Nov. 8, 1887, 469 340  
 References—*Jeffery*, 354,907. Dec. 28, 1886.  
*Copper*, 351,251. Oct. 19, 1886.  
*Marble*, 304,334. Sept. 2, 1884.  
*Hart*, 363,518. May 24, 1887.  
 375,707 Hudson, Henry J., Dec. 27, 1887, 469 340  
 No references.  
 376,322 Latta, Emmit G., Jan. 10, 1888, 470 340  
 References—*Bean*, 341,547. May 11, 1886.  
*Hart*, 285,891. Oct. 2, 1883.  
*Fish*, 345,424. July 13, 1886.  
*Latta*, 327,399. Sept. 29, 1885.  
*Copper*, 351,251. Oct. 19, 1886.  
*Hill*, 312,634. Feb. 24, 1885.  
 376,662 Latta, Emmit G., Jan. 17, 1888, 470 340  
 References—*Bean*, 341,547. May 11, 1886.  
*Fish*, 345,424. July 13, 1886.  
*McCoy*, 314,701. March 31, 1885.  
*Hill*, 312,634. Feb. 24, 1885.  
 376,892 Latta, Emmit G., Jan. 24, 1888, 470 341  
 References—*Fish*, 345,424. July 13, 1886.  
*Jeffery*, 354,907. Dec. 28, 1886.  
 381,165 Pope, Harry M., April 17, 1888, 470 341  
 References—*Hodge*, 154,481. Aug. 25, 1874.  
 12,539 of 1884. English.  
 382,430 Knous, John, May 8, 1888, . . . . . 471 341  
 No references.  
 382,534 Lamplugh, James A., May 8, 1888, 471 342  
 No references.  
 384,473 Salter, George, and Walker, John,  
 June 12, 1888, . . . . . 472 342  
 References—*Fish*, 345,424. July 13, 1886.

P. C.	P. C.
384,600 Andrews, William, June 19, 1888, 473 342 References—Burley, 253,504. Feb. 14, 1882.	Kramer, 361,530. April 19, 1887. Duryea, 402,313. April 30, 1889.
384,980 Jeffery, Thomas B., June 26, 1888, 473 342 References—Copper, 351,251. Oct. 19, 1886. Kirkpatrick, 314,142. March 17, 1885. Regnier, 334,469. Jan. 19, 1886.	413,639 Eddy, John B., Oct. 22, 1889, . . . 479 345 References—Hudson, 375,707. Dec. 27, 1887.
385,403 Boudreau, Leon, July 3, 1888, 473 343 References—Veeder, 252,280. Jan. 10, 1882. Hale, 339,289. April 6, 1886.	415,253 Patisson, Sidney, Nov. 19, 1889, 480 345 No references.
385,606 Fish, Warren L., July 3, 1888, 474 343 References—Veeder, 252,280. Jan. 10, 1882. Griffiths, 338,151. March 16, 1886. 16,535 of 1884. English. 15 of 1885. " 1,789 of 1885. " 2,359 of 1885. "	415,291 Gilbert, Solomon E., Nov. 19, 1889, 480 346 References—Jeffery, 354,907. Dec. 28, 1886. Bean, 341,547. May 11, 1886. 114 of 1883. English. 2,396 of 1885. " Rintelman, 252,971. Jan. 31, 1882. Hill, 312,634. Feb. 24, 1885.
388,484 Garford, Arthur L., Aug. 28, 1888, 474 343 References—Regnier, 334,469. Jan. 19, 1886. Clark, 334,164. Jan. 12, 1886. Bean, 341,547. May 11, 1886.	416,697 Warwick, George T., Dec. 3, 1889, 481 346 No references.
392,821 Overman, Albert H., Nov. 13, 1888, . . . . . 474 343 No references.	416,699 Whitman, Louis F., Dec. 3, 1889, 481 346 References—Rucker, 322,974. July 28, 1885. O'Brien, 399,774. March 19, 1889.
393,904 Henry, Hiram F., Dec. 4, 1888, 475 343 References—1,680 of 1882. English. 15,618 of 1884. "	420,009 Hain, Ralph B., Jan. 21, 1890, . . . 482 346 References—Brooks, 401,123. April 9, 1889. Lamplugh, 293,656. Feb. 19, 1884.
401,123 Brooks, John B., April 9, 1889, 475 343 References—Lamplugh, 323,693. Aug. 4, 1885.	420,060 Hanson, Olaus, Jan. 28, 1890, . . . 482 346 No references.
402,313 Duryea, Charles E., April 130, 1889, 475 344 References—McClure, 331,518. Dec. 1, 1885. 1,559 of 1887. English. Kreter, 203,742. May 14, 1878. Jury, 163,381. May 18, 1875. McClure, 342,620. May 25, 1886. 3,959 of 1874. English. Harrison, 252,939. Jan. 31, 1882. Griffiths, 338,151. March 16, 1886. 17,928 of 1887. English.	420,421 Veeder, Curtis H., Jan. 28, 1890, 482 347 References—Kirkpatrick, 314,142. May 17, 1885. Lilliput, 294,645. March 4, 1884. Jeffery, 354,907. Dec. 28, 1886. Latta, 327,399. Sept. 29, 1885. Fish, 345,424. July 13, 1886. 12,539 of 1884. English. 11,757. " Hart, 363,518. May 24, 1887. Interference with application of Thomas B. Jeffery. Decision favorable to Jeffery.
403,078 Swett, Charles F., May 7, 1889, . . . 477 344 References—2,396 of 1885. English.	420,578 Leeper, James L., Feb. 4, 1890, 483 347 References—Rucker, 322,974. July 28, 1885. Latta, 329,349. Nov. 6, 1888. O'Brien, 399,774. March 19, 1889. O'Brien, 386,601. July 24, 1888. Zacharias, 302,462. July 22, 1884. Smith, 301,490. Oct. 23, 1888. 5,940 of 1887. English.
404,832 Goulden, William, June 11, 1889, 477 345 No references.	421,233 Brooks, John B., Feb. 11, 1890, 483 347 No references.
405,780 Knous, John, June 25, 1889, . . . 477 345 References—Fish, 385,666. July 3, 1888. Griffiths, 338,151. March 16, 1886. 10,349 of 1884. English. 12,934 of 1884. "	423,800 Nodder, Samuel, and Petford, William H., March 18, 1890, . . . 484 347 References—Jeffery, 354,907. Dec. 28, 1886. Turner & Asbury, 408,861. Aug. 13, 1889.
408,718 Jeffery, Thomas B., Aug. 13, 1889, 478 345 References—Kirkpatrick, 314,142. March 17, 1885. McCoy, 314,701. March 31, 1885. Bean, 341,547. May 11, 1886. Warwick, 362,407. May 3, 1887. Interference with the application of Curtis H. Veeder. Decision favorable to Jeffery.	427,488 Warwick, George T., May 6, 1890, 484 347 No references.
408,743 Phelps, Charles H., Aug. 13, 1889, . . . . . 478 345 No references.	429,344 Gissinger, Samuel, June 3, 1890, 485 348 References—Monroe, 86,856. Feb. 9, 1869. Atherton, 92,689. July 20, 1869. La Casse, 327,979. Oct. 6, 1885.
408,861 Turner, William B., and Asbury, John, Aug. 13, 1889, . . . . . 478 345 References—Payne, 342,925. June 1, 1886. Kirkpatrick, 314,142. March 17, 1885. Conrad, 248,026. Oct. 11, 1881. Conrad, 266,431. Oct. 24, 1882.	429,587 Warwick, George T., June 3, 1890, 485 348 References—Harrington, 364,174. May 31, 1887. Latta, 378,253. Feb. 21, 1888. Chapman, 301,882. Oct. 30, 1888. Jeffery, 354,907. Dec. 28, 1886. 9,254 of 1887. English. 17,928 of 1887. "
409,964 Harvey, Charles T., Aug. 27, 1889, . . . . . 479 345 References—King, 349,800. Sept. 28, 1886. . .	431,573 Garford, Arthur L., July 8, 1890, 485 349 References—Gendron, 400,074. March 26, 1889. Kibbe, 402,490. April 30, 1889. Kirkpatrick, 314,142. March 17, 1885. Knous, 352,430. May 8, 1889.
432,125 Duryea, Charles E., July 15, 1890, 486 349 No references.	

P.	C.	P.	C.
434,449 Jeffery, Thomas B., Aug. 19, 1890, . . . . .	486 349	Warwick, 427,488. May 6, 1890. Garford, 384,484. Aug. 28, 1888. Bordreau, 385,493. July 3, 1888. Veeder, 372,994. Nov. 8, 1887. Fish, 385,606. July 3, 1888. Regnier, 334,499. Jan. 19, 1886. Warwick, 384,945. June 19, 1888.	
References—Overman, 329,550. Nov. 3, 1885. Harvey, 409,964. Aug. 27, 1889.		455,014 DeWolfe, Edward R., June 30, 1891, . . . . .	492 353
435,385 Babbitt, Seth W., Sept. 2, 1890, .	487 350	References—Fish, 385,606. July 3, 1888. Knous, 405,780. June 25, 1889. Warwick, 429,587. June 3, 1890.	
References—Pattison, 415,253. Nov. 19, 1889. Lillibridge, 337,171. March 20, 1886. Hill, 312,634. Feb. 24, 1885. Latta, 376,892. Jan. 24, 1888.		455,027 True, Richard S., June 30, 1891, 492 353	
436,648 Dennett, Daniel, Sept. 16, 1890, .	487 350	References—Warwick, 316,702. April 28, 1885.	
References—Shaller, 192,022. June 12, 1877. Fowler, 240,990. May 3, 1881. Fay, 301,702. July 8, 1884. Abbott, 403,406. May 14, 1889.		455,058 Rhoades, Leonard W., June 30, 1891, . . . . .	492 354
439,400 Harriott, George, Oct. 28, 1890, .	488 350	References—Jeffery, 275,917. April 17, 1883. Payne, 342,925. June 1, 1886.	
No references.		455,363 Seymour, George E., July 7, 1891, 493 354	
441,485 Greenwood, Ransford S., Nov. 25, 1890, . . . . .	488 350	References—Payne, 342,925. June 1, 1886. 2,708 of 1889. English. Turner & Asbury, 408,861. Aug. 13, 1889.	
References—Leeper, 420,578. Feb. 4, 1890. Credlebaugh, 398,945. March 5, 1889. Whitman, 416,699. Dec. 3, 1889. Jeffery, 434,449. Aug. 19, 1890.		455,474 McGlinchey, Charles E., July 7, 1891, . . . . .	493 354
442,207 Sager, James H., Dec. 9, 1890, .	488 350	References—Hanson, 420,060. Jan. 28, 1890.	
References—Harvey, 409,964. Aug. 27, 1889. Warwick, 429,587. June 3, 1890.		455,882 Latta, Emmet G., July 14, 1891, 493 354	
446,355 Lamplugh, James A., Feb. 10, 1891, . . . . .	489 351	References—Jeffery, 354,907. Dec. 28, 1886. Warwick, 429,587. June 3, 1890. Clark, 334,104. Jan. 12, 1886. Harnott, 439,400. Oct. 28, 1890. Garford, 431,573. July 8, 1890. Veeder, 252,280. Jan. 10, 1882.	
References—3,227 of 1889. English. Hill, 312,634. Feb. 24, 1885.		456,792 Brooks, Frederick, July 28, 1891, 493 354	
446,387 Little, Joseph A., Feb. 10, 1891, .	489 351	References—Jeffery, 354,917. Dec. 28, 1886. Latta, 376,892. Jan. 24, 1888.	
References—Latta, 376,662. Jan. 17, 1888. Pope, 381,105. April 17, 1888 Lillibridge, 337,171. March 2, 1886. Latta, 376,892. Jan. 24, 1888.		457,654 Meader, George, Aug. 11, 1891, .	494 354
Overman, 331,901. Nov. 24, 1885. Sother & Walker, 384,473. June 12, 1888. Talliaferro & Mitchell, 310,746. Jan. 13, 1885.		References—Jeffery, 343,449. Aug. 19, 1890. Latta, 444,637. Jan. 13, 1891. Hannott, 439,496. Oct. 28, 1890. Warwick, 427,488. May 6, 1890. Warwick, 429,587. June 3, 1890.	
448,469 Yost, Joseph L., and Moore, Charles J., March 17, 1891, . . . . .	490 351	457,834 Bolte, Frank H., Aug. 18, 1891, 494 355	
References—Clarke, 334,164. Jan. 12, 1886. Hale, 339,289. April 6, 1886. Lamplugh, 293,656. Feb. 19, 1884. Interference with applications of Arthur L. Garford and W. J. Edwards. Decision favorable to Garford.		References—Warwick, 329,517. Nov. 3, 1885. Garford, 431,573. July 8, 1890. Lamplugh, 323,693. Aug. 4, 1885. Eddy, 413,039. Oct. 22, 1889. Hill, 312,634. Feb. 24, 1885. Pattison, 415,253. Nov. 19, 1889. Keating, 420,805. Feb. 4, 1890. Lamplugh, 382,534. May 8, 1888. 2,491 of 1887. English. 2,133 of 1886. English. Duryea, 432,125. July 15, 1890. 3,564 of 1879. English.	
448,739 Edwards, William J., March 24, 1891, . . . . .	490 351	457,835 Bolte, Frank H., Aug. 18, 1891, 494 355	
References—Clarke, 334,164. Jan. 12, 1886. Warwick, 427,488. May 6, 1890.		References—Hale, 339,289. April 6, 1886. Clark, 334,164. Jan. 12, 1886. Babbitt, 435,385. Sept. 2, 1890. 2,591 of 1886. English. Garford, 388,484. Aug. 20, 1888.	
448,774 Copper, Luther S., March 24, 1891, . . . . .	490 352	457,961 Bolte, Frank H., Aug. 18, 1891, 494 355	
No references.		References—Fish, 345,424. July 13, 1886. Warwick, 427,488. May 6, 1890.	
452,797 Little, Joseph A., May 26, 1891, 490 352		458,113 Rage, John C., Aug. 18, 1891, .	495 355
References—Garford, 431,573. July 8, 1890. 4,925 of 1887. English. Warwick, 416,606. Dec. 3, 1889. Warwick, 429,587. June 3, 1890.		References—Knouse, 405,780. June 25, 1889. Babbitt, 435,385. Sept. 2, 1890.	
453,039 Cornelius, Wilbur F., May 26, 1891, . . . . .	491 352	458,609 Willis, Ernest J., Sept. 1, 1891, .	495 355
No references.		References—Kirkpatrick, 314,142. March 17, 1885. Turner & Asbury, 408,861. Aug. 13, 1889.	
453,212 Sager, James H., June 2, 1891, 491 352		460,072 Jones, Frank D., Sept. 22, 1891, 495 355	
References—Harvey, 409,964. Aug. 27, 1889.		No references.	
454,172 Jeffery, Thomas B., June 16, 1891, 491 353			
No references.			
454,431 Hance, William A., June 16, 1891, 491 353			
References—Harriott, 439,400. Oct. 28, 1890. Turner & Asbury, 408,861. Aug. 13, 1889.			

P.	C.	P.	C.
460,279 McGlinchey, Charles E., Sept. 29, 1891, . . . . .	495 356	54,207 Reynolds, Harvey A., April 24, 1866, . . . . .	501 210
References—Garford, 431,573. July 8, 1890.		References—Mackenzie, 36,161. Aug. 12, 1862. Mackenzie, 41,310. Jan. 19, 1864.	
460,784 Mercer, William R., Oct. 6, 1891, 496 356		60,335 Brown, John H., Dec. 11, 1866, 501 210	
References—Knouse, 405,780. June 25, 1889. 6,789 of 1885. English.		References—Mackenzie, 36,161. Aug. 12, 1862. Goodman, 44,256. Sept. 13, 1864.	
464,508 Lindner, William, Dec. 8, 1891, . 496 356		63,433 Scheen, Joseph, April 2, 1867, 501 210	
References—Jeffery, 354,907. Dec. 28, 1886. Turner & Asbury, 408,861. Aug. 13, 1889.		64,418 Hoeppner, F. G., May 7, 1867, . . . 501 210	
464,653 Latta, Emmitt G. Dec. 8, 1891, . 496 357		No references.	
References—Lamplugh, 382,534. May 8, 1888. 13,826 of 1888. English.		80,425 Reynolds, Harvey A., July 28, 1868, 502 210	
Babbitt, 435,385. Sept. 2, 1890.		References—Reynolds, 54,207. April 24, 1866.	
Knouse, 405,780. June 25, 1889.		81,603 Christian, Andrew, Sept. 1, 1868, 502 210	
Clark, 334,164. Jan. 12, 1886.		References—Crandall & Conover, 31,872. April 2, 1861. Barr, S. W., 30,192. Oct. 2, 1860. Interference with application of J. Rein-	
Warwick, 429,587. June 3, 1890.		hart. Dissolved.	
Knouse, 318,507. May 26, 1885.		86,738 Denovan, William, Feb. 9, 1869, 503 210	
Duryea, 432,125. July 15, 1890. 13,826 of 1889. English.		No references.	
465,669 Kirkpatrick, Thomas J., Dec. 22, 1891, . . . . .	497 357	87,275 McCully, Robert, Feb. 23, 1869, 503 210	
No references.		References—Vrooman, H. S. Sept. 2, 1866.	
—		87,290 Reinhart, John, Feb. 23, 1869, 503 210	
Children's.		No references.	
29,288 Landis, Edward, July 24, 1860, . 497 208		Interference with patent to Andrew Christian, Sept. 1, 1868. Dissolved.	
No references.		91,398 Wirtz, John C., June 15, 1869, 503 210.	
31,302 Crandall, Jesse A., Feb. 5, 1861, . 498 208		No references.	
References—Crandall, J. A. May 17, 1859. Landis, 29,288. July 24, 1860.		93,967 Combs, A., Aug. 24, 1869, . . . 504 210	
31,872 Crandall, Benjamin P., and Con- over, Jacob A., April 2, 1861, . . . 498 208		References—Hanlon, 86,834. Feb. 9, 1869.	
No references.		100,316 Nolan, John H., March 1, 1870, 504 210	
36,161 MacKenzie, Philip W., Aug. 12, 1862, . . . . .	498 208	References—Hoeppner, 64,418. May 7, 1867. Crandall, 31,302. Feb. 5, 1861.	
No references.		101,310 Purroy, Frederick L., March 29, 1870, . . . . .	504 210
3,319, } MacKenzie, Philip W., (R.) March 36,161, } 2, 1869, . . . . .	499 208	References—Winslow, K. J. June 23, 1868. Smith, William H., 92,485. July 31, 1869.	
References—2,522 of 1859. English. 1,179 of 1854. " 382 of 1861. " Chalmers & Barratt 1891 of 1862. Vol. 21. Carriages.		102,322 Rhodes, Joel H., and Reed, Wil- liam, April 26, 1870, . . . . .	504 210
39,349 MacKenzie, Philip W., July 28, 1863, . . . . .	499 208	References—MacKenzie, 41,310. Jan. 19, 1864.	
No references.		105,251 Roberts, Samuel D., and Dingee, Montgomery, July 12, 1870, . . . . .	505 210
Interference with two applications of Jesse A. Crandall. Decision favorable to MacKenzie.		No references.	
41,310 MacKenzie, Philip W., Jan. 19, 1864, . . . . .	499 209	105,701 Liming, John, July 26, 1870, . . . 505 211	
No references.		References—Case, J. M., 88,366. March 30, 1869. Fisher, D. S., 65,199. May 28, 1867.	
7,818 } MacKenzie, Philip W., (R.) July 41,310 } 31, 1877, . . . . .	500 209	111,597 Williams, William L., Feb. 7, 1871, . . . . .	505 211
References—MacKenzie, 36,161. Aug. 12, 1862.		References—Hoeppner, 64,418. May 7, 1867.	
46,705 Reynolds, Havey A., March 7, 1865, . . . . .	500 209	140,290 McGilvray, Lewis T., June 24, 1873, . . . . .	505 211
No References.		No references.	
8,252 } Reynolds, Havey A. (R.) May 28, 46,705 } 1878, . . . . .	500 209	161,924 Bailey, John J., April 13, 1875, 506 211	
References—66,454 of 1861. French. Mechanic's Magazine, London, 1841, page 261.		References—Clime, 106,780. Aug. 30, 1870.	
50,078 Percival, Leven C., Sept. 19, 1865, 500 209		171,432 Schmackers, Anton, Dec. 21, 1875, 506 211	
References—Crandall, 31,302. Feb. 5, 1861.		No references.	
		184,435 Slemmer, Frank G., Nov. 14, 1876, 506 211	
		No references.	
		186,880 Ross, Abbott Q., Jan. 30, 1877, 506 211	
		References—Crandall, 137,896. April 15, 1875. Marqua, 40,258. Feb. 7, 1865.	

- May, 71, 562. Nov. 26, 1867.
- 193,098 Nolan, John H., July 17, 1877, . . . 507 211  
References—Crandall, 31,302. Feb. 6, 1861.  
Knudson, 177,854. May 23, 1876.  
MacKenzie, 36,191. Aug. 12, 1862.
- 199,518 Crandall, Jesse A., Jan. 22, 1878. 507 211  
References—Crandall & Conover, 31,872. April 6, 1861.  
Slemmers, 184,435. March 14, 1876.  
Interference with application of Abbott  
Q. Ross. Dissolved.
- 202,056 Scharf, Samuel R., April 2, 1878, 507 212  
References—Bodel et al., 169,774. Nov. 9, 1875.  
Butterfield, 91,602. June 22, 1869.  
Mitchell, 100,353. May 1, 1877.  
Reinhart, 87,290. Feb. 23, 1869.  
Slemmers, 184,435. Nov. 14, 1876.  
Van der Waag, 88,347. March 30, 1869.  
Crandall, 199,518. Jan. 22, 1878.  
Serrell, 87,713. March 9, 1869.
- 205,921 Stafford, George, July 9, 1878, . . . 508 212  
References—Lallement, 59,915. March 20, 1866.  
Scharf, 202,056. April 2, 1878.  
Rhodes & Reed, 102,322. April 26, 1870.
- 207,240 Bishop, George W., Aug. 20, 1878, 508 212  
References—McKenzie, 36,161. Aug. 12, 1862.  
McKenzie, (R.) 3,319. March 2, 1869.  
Laubach, 86,235. Jan. 26, 1869.
- 209,777 Ross, Abbott Q., Nov. 12, 1878, . . . 508 212  
References—Ross, 186,880. Jan. 30, 1877.
- 210,271 Ross, Abbott Q., Nov. 26, 1878, . . . 509 212  
References—Crandall, 199,518. Jan. 22, 1878.  
Roberts & Dingee, 105,251. July 12, 1870.  
Interference with patent to Jesse A.  
Crandall, Jan. 22, 1878. No. 199,518.  
Dissolved.
- 219,252 Green, Charles W., Sept. 2, 1879, 509 212  
References—Hawkins, 86,153. Jan. 26, 1869.  
Metzgar, 89,679. May 4, 1869.  
Armando, 94,990. Sept. 21, 1869.  
Smith, 89,443. April 27, 1869.
- 222,861 Brasch, Carl, Dec. 23, 1879, 509 213  
References—Schmackers, 171,432. Dec. 21, 1875.  
Scharf, 202,056. April 21, 1878.
- 228,496 Vick, Alfred, June 8, 1880, . . . 509 213  
No references.
- 229,655 Albrecht, Wilhelm, July 6, 1880, 510 213  
References—Marble, 185,401. Dec. 19, 1876.  
Stafford, 205,921. July 9, 1878.
- 230,722 Stover, Atkins, Aug. 3, 1880, 510 213  
References—Stafford, 205,921. July 9, 1878.  
Bishop, 207,240. Aug. 28, 1878.
- 245,840 Krueger, John W., Aug. 16, 1881, 510 213  
No references.
- 314,351 Spitznass, William, March 24,  
1885, . . . . . 510 213  
References—Landis, 29,288. July 24, 1860.  
Percival, 50,678. Sept. 16, 1865.
- 319,351 Toennies, Charles, June 2, 1885, 511 213  
No references.
- 324,605 Stillman, Charles F., Aug. 18,  
1885, . . . . . 511 213  
References—Serrell, 87,713. March 9, 1869.  
Brown, 60,335. Dec. 11, 1866.
- 324,826 Fritz, August, Aug. 25, 1885, . . . 511 214  
References—Stafford, 205,921. July 9, 1878.
- 325,408 Heilman, Russell P., and Per-  
kins, Richard B., Sept. 1, 1885, . . . 512 214  
References—Stover, 230,722. Aug. 3, 1880.  
Reynolds, (R.) 8,252. May 28, 1878.  
Bishop, 207,240. Aug. 20, 1878.
- 327,697 La Casse, Henry, Oct. 6, 1885, . . . 512 214  
References—MacKenzie, 36,161. April 12, 1862.  
Crandall, 199,518. Jan. 22, 1878.  
Bishop, 207,240. Aug. 20, 1878.  
Reynolds, 40,705. March 7, 1865.
- 346,078 Vick, Alfred, July 20, 1886, . . . 513 214  
No references.
- 350,723 Crandall, William E., Oct. 12,  
1886, . . . . . 513 214  
No references.
- 364,466 Bate, James, June 7, 1887, . . . 513 214  
References—Combs, 93,967. May 24, 1869.  
MacKenzie, 41,310. Jan. 19, 1864.  
Fritz, 324,826. Aug. 25, 1885.  
13,294 of 1884. English.
- 381,038 Stillman, Charles F., April 10,  
1888, . . . . . 513 214  
References—Quinn, 47,220. April 11, 1865.  
Thompson, 86,787. Feb. 9, 1869.  
Bains, 351,150. Oct. 19, 1886.
- 381,116 Davis, Willis, April 17, 1888, . . . 514 215  
References—Toennies, 319,351. June 2, 1885.  
McCully, 87,275. Feb. 23, 1869.  
1,760 of 1862. English.  
Krueger, 245,840. Aug. 16, 1881.
- 453,243 Koepf, Henry, June 2, 1891, . . . 514 215  
References—Kruger, 245,840. Aug. 16, 1881.  
Crandall, 350,723. Oct. 12, 1886.  
Callahan, 85,640. Jan. 5, 1869.
- 
- Toy.
- 89,567 Eaton, Elijah, May 4, 1869, . . . 514 207  
No references.
- 89,700 Sturdy, George J., and Young,  
Solomon W., May 4, 1869, . . . . . 514 207  
No references.
- 92,243 Alexander, H. C., July 6, 1869, 515 207  
No references.
- 98,007 Alexander, H. C., Dec. 21, 1669, 515 207  
References—Eaton, 89,567. May 4, 1869.  
Broad, L. April 23, 1867.
- 191,278 Conklin, John E., May 29, 1877, 515 207  
References—Eaton, 89,567. May 4, 1869.  
Alexander, 98,007. Dec. 21, 1869.
- 10,213 } Conklin, John E., (R.) Oct. 10,  
191,278 } 1882, . . . . . 515 207  
No references.
- 261,290 Wyke, Thomas II., and Bancroft,  
James, July 18, 1882, . . . . . 516 207  
No references.
- 333,448 Crispin, Thomas, Dec. 29, 1885, 516 207  
References—Alexander, 98,007. Dec. 21, 1869.  
Hawthorne, 196,753. Nov. 6, 1877.
- 345,414 Coudyser, Adolph, July 13, 1886, 516 208  
References—Wyke & Bancroft, 261,290. July 18, 1882.  
Oldroyd, 291,621. Jan. 8, 1884.
- 457,619 Peter, Victor, Aug. 11, 1891, . . . 516 208  
References—Wyke & Bancroft, 261,290. July 18, 1882.  
Coudyser, 345,414. July 13, 1886.

P.	C.	P.	C.
Dotterer, 152,831. July 7, 1874. Yarick & Neister, 396,132. Jan. 15, 1889. Rice, 13,139. June 26, 1855.		Howard, 131,099. Sept. 3, 1872. Irwin, 85,527. Jan. 5, 1860. Taylor, 146,160. July 1, 1879. Hills, 146,007. Jan. 27, 1874. Dilks, 168,382. Oct. 5, 1875. Lauten, 168,030. Dec. 11, 1877. Lowth, 187,542. Feb. 20, 1877. Gill, 19,849. April 6, 1858.	
462,295 Blaser, Gustav, Nov. 3, 1891, . . . 517 208		245,418 Urch, David, Aug. 9, 1881, . . . 521 220	
References—Crispin, 333,448. Dec. 29, 1885. Wyke & Bancroft, 261,290. July 18, 1882. Coudyser, 345,414. July 13, 1886.		References—Colony, 233,919. Nov. 2, 1880. Atkin, 79,183. June 23, 1868. Sharps, 109,458. Nov. 22, 1870. Lacroix, Jr., 33,893. Dec. 10, 1861. Dodge, 130,110. Aug. 6, 1872. 1,999 of 1868. English. Fitzpatrick, Feb. 12, 1836. Crosby & Vivartas, 185,301. Dec. 12, 1876. Montgomery, 23,105. March 1, 1859. Wederkinch & Starkweather, 109,083. Nov. 8, 1870. Werner, 212,638. Feb. 25, 1879.	
463,891 Elliott, Judson A. Nov. 24, 1891, 517 208 No references.		251,077 Urch, David, Dec. 20, 1881, . . . 522 221	
Water.		References—Wood, 85,501. Dec. 29, 1868. Buschmann, 95,648. Oct. 12, 1869. Urch, 245,418. Aug. 9, 1881. Wildman, 122,301. Dec. 26, 1871. Fowler, 227,511. May 11, 1880. Bruin, 234,954. Nov. 30, 1880. Ascough, 166,839. Aug. 17, 1875. Richardson, 222,951. Dec. 23, 1879.	
94,294 De La Rue, Jules M., Aug. 31, 1869, 518 219 No references.		314,491 Thompson, James, March 24, 1885, 522 221	
Interference with application of C. O. Wederkinch and A. Starkweather. Decision favorable to Wederkinch & Starkweather.		References—Ascough, 166,839. Aug. 17, 1875. Bunn, 94,559. Sept. 7, 1869. Coloney, 233,919. Nov. 2, 1880. 5,245 of 1881. English. 1,970 of 1868. " " Rider, 183,777. Oct 31, 1876. Randolph, 560. 1838.	
94,362 Townsend, V. B., Aug. 31, 1869, 518 219 No references.		315,743 Curlin, Seth, April 14, 1885, . . . 522 221	
94,559 Bunn, Lewis D., Sept. 7, 1869, 518 220 No references.		References—Tod & Parker, 265,185. Sept. 26, 1882. Belz, 185,662. Dec. 26, 1876. Fetherston, 108,933. Jan. 8, 1878. Davis, 99,540. Feb. 8, 1870. Coloney, 233,919. Nov. 2, 1880. Bruin, 234,954. Nov. 30, 1880.	
Interference with application of C. O. Wederkinch and A. Starkweather. Decision favorable to Wederkinch & Starkweather.		380,221 Ross, Frederick J. and William H., March 27, 1888, . . . . . 523 221	
95,785 Fall, George A., Oct. 12, 1869, 518 220 References—Osborn & Chase, (Rejected case.) Filed Feb. 24, 1860. Hopkins, O., (Withdrawn) March 7, 1860. Bell, J., (Rejected case.) Filed Dec. 31, 1866. Delafield, C., (Rejected case) Filed March 30, 1869.		References—Bonwell, 3,485 of 1868. English.	
109,083 Wederkinch, Carl O., and Stark- weather, Archibald, Nov. 8, 1870, 519 220 References—De La Rue, 94,294. Aug. 31, 1869. Bunn, 94,559. Sept. 7, 1869. Patrick Miller's description of boats, pages 21-23, year 1787. Woodcroft's Crigton and Progress of Steam Navigation. Hart, John, (Rejected case.) Filed Nov. 18, 1862. Interference with application of Lewis D. Bunn and patent to Jules M. De La Rue. No. 94,294. Decision favorable to Weder- kinch & Starkweather.		391,770 Adams, Gideon S., Oct. 30, 1888, 524 221	
166,839 Ascough, William, Aug. 17, 1875, 519 220 References—Farmer, 92,807. July 20, 1869. Farmer, 92,808. July 20, 1869. Galt, 24,552. June 28, 1869. Pike, 93,902. Aug. 17, 1869. Elliott, 148,434. March 10, 1874. Bunn, 94,559. Sept. 7, 1869.		References—Bernhard, 351,152. Oct. 19, 1886. Little, 259,878. March 14, 1882. Ross, 380,221. March 27, 1888. Urch, 245,418. Aug. 9, 1881. Shook, 104,476. Aug. 21, 1877. Newsam & Hays, 241,608. May 17, 1881. 5,758 of 1886. English. Bone, 259,466. June 13, 1882. Thompson, 314,491. March 24, 1885. 3,768 of 1886. English. 2,585 of 1886. "	
193,365 Drevar, George, July 24, 1877, . . . 519 220 References—Burnham, George. Dec. 10, 1840. Fall, George A., 95,785. Oct. 12, 1869. Kirby, W. A., 147,140. Feb. 3, 1874.		401,736 Curlin, Seth, April 23, 1889, . . . 524 221	
233,919 Coloney, Myron, Nov. 2, 1880, . . . 520 220 References—Pond, 128,750. July 9, 1872. Broad, 28,150. May 8, 1860. Wederkinch & Starkweather, 109,083. Nov. 8, 1870. De La Rue, 94,294. Aug. 31, 1869. Hanlon, 79,654. July 7, 1868. Richardson, 222,951. Dec. 23, 1879.		References—Curlin, 315,743. April 14, 1885. Smith, 124,170. Feb. 27, 1872. Dilks, 264,446. Sept. 19, 1882. Schulze & Berge, 317,582. May 12, 1885. Newsam & Hays, 241,608. May 17, 1881. Stevens, 247,429. Sept. 20, 1881. Coloney, 233,919. Nov. 2, 1880. Urch, 251,077. Dec. 20, 1881. Mitchell, 180,778. Aug. 8, 1876. Peoples, 30,087. Sept. 18, 1860. Ascough, 166,837. Aug. 17, 1875. Belz, 185,662. Dec. 26, 1876. Fetherston, 108,933. Jan. 8, 1878. Fields, 71,153. Nov. 19, 1867. Batz, 312,071. Feb. 10, 1885. Monroe & Sisum, 383,897. June 5, 1888. Hale, 226,999. April 27, 1880.	
241,698 Newsam, George A., and Hayes, John, May 17, 1881, . . . . . 520 220 References—Mortimer & Gardiner, 8,546. Nov. 25, 1851. Bunn, 94,559. Sept. 7, 1869. Williams, March 3, 1829. Calbin, 121,275. Nov. 28, 1871. Rus, 106,620. Aug. 23, 1870. Mitchell, 180,778. Aug. 8, 1876.			

	P.	C.
Muller et al., 127,911. June 11, 1872. Goodyear, 4 of 1868. English. Ross, 380,221. March 27, 1888. Interference with application of Charles Jorgensen. Decision favorable to Curlin.		
412,391 Jorgensen, Charles, Oct. 8, 1889, 525 222 References—Crossley, 75,531. March 17, 1868. Tod & Bueker, 265,185. Sept. 26, 1882. 1,999 of 1868. English. Urch, 231,077. Dec. 20, 1881. Bowers, 336,787. Feb. 23, 1886. 92 of 1859. English. Interference with application of Seth Curlin. Decision favorable to Curlin.		
413,719 Heinze, George, Oct. 29, 1889, 526 222 References—Grace, 81,623. Sept. 1, 1868. Tobias 145,697. Dec. 16, 1873. Mead, 168,912. Oct. 19, 1875. Mason, 237,762. Feb. 15, 1881.		
<b>Combined Land and Water.</b>		
75,531 Crossley, William G., March 17, 1868, . . . . . 526 218 No references.		
92,807 Farmer, David J., July 20, 1869, 526 218 No references.		
92,808 Farmer, David J., July 20, 1869, 527 218 No references.		
100,356 Beck, Joseph, March 1, 1870, . . . . . 527 218 References—Crossley, 75,531. March 17, 1868.		
234,954 Burin, Henri B., Nov. 30, 1880, 527 218 References—Ascough, 166,839. Aug. 17, 1875. Crossley, 75,531. March 17, 1868. Way, 71,562. Nov. 26, 1867.		
271,799 Coomans, Felix A., Feb. 6, 1883, 527 219 References—Farmer, 92,808. July 20, 1869. Jones, 90,947. June 8, 1869. Gallup, 264,073. Sept. 12, 1882. 3,380 of 1869. English. Fryer, 233,086. Oct. 12, 1880.		
271,899 Mitchell, William S., Feb. 6, 1883, 528 219 References—Venne, 246,988. Sept. 13, 1881.		
299,317 Aspinwall, John A., May 27, 1884, 528 219 References—Thomas, 23,277. March 15, 1859.		
463,283 Pinkert, George, Nov. 17, 1891, . . . . . 529 219 References—Farmer, 92,808. July 20, 1869. Coomans, 271,799. Feb. 6, 1883.		
464,227 Olsen, Thor J., Dec. 1, 1891, . . . . . 529 219 References—Burin, 234,954. Nov. 30, 1880. Davis, 24,725. July 12, 1859.		
<b>Ice and Snow.</b>		
34,369 Johnson, Frank G., Feb. 11, 1862, 529 199 No references.		
34,718 Kidder, Francis L., March 18, 1862, 530 199 No references.		
47,580 Smith, Henry, May 2, 1865, . . . . . 530 199 References—Brown, I. N. April 8, 1862. Kidder, 34,718. March 18, 1862. Johnson, 34,369. Feb. 11, 1862.		
62,427 Kirk, George H., Feb. 26, 1867 . . . . . 530 199 No references.		
65,633 Bannahr, John, June 11, 1867, . . . . . 530 199 No references,		
73,029 Newman, Martin, Jan. 7, 1868, . . . . . 531 199 No references.		
73,198 Rancevau, John, Jan. 7, 1868, . . . . . 531 199 References—Smith, 47,580. May 2, 1865. Johnson, 34,369. Feb. 11, 1862. Kidder, 34,718. March 18, 1862. Bartholomew, D. B. (Rejected case). Filed Aug. 18, 1865.		
75,953 Moore, H. C., March 24, 1868, . . . . . 531 199 References—Smith, 47,580. May 2, 1865.		
85,501 Wood, Sylvester A., Dec. 29, 1868, 531 200 No references.		
86,545 Huntsman, E. N., Feb. 2, 1869, . . . . . 532 200 References—Johnson, 34,369. Feb. 11, 1862. Bartholomew, D. B. (Rejected case). Filed Aug. 18, 1855.		
93,833 Purvis, Adam, Aug. 17, 1869, . . . . . 532 200 References—Barr, S. W., 30,192. Oct. 2, 1860. Huntsman, 86,545. Feb. 2, 1869. Johnson, 34,369. Feb. 11, 1862.		
95,521 Searing, Theodore, Oct. 5, 1869, 532 200 No references.		
97,340 Bailey, Sylvester M., Nov. 30, 1869, 533 200 References—Foster, J. B. (Rejected case). Filed March 30, 1855. Hall, C. H. (Rejected case). Filed May 24, 1865. Daubach, W. H., 86,235. Jan. 26, 1869. Boyle, F. T. L. Dec. 3, 1867 Monroe, J. 86,856. Feb. 9, 1869. Topliff, Ely, 87,225. Feb. 23, 1869. Pickering, T. R., 88,507. March 30, 1869. Jones, 11,821 of 1847. English. Whitaker & Clark. (Rejected case). Filed Oct. 28, 1850. Smith, C. (Rejected case). Filed Aug. 22, 1855. Massatua, D. F. (Rejected case). Filed Febr. 24, 1866. House & Snyder, 89,047. April 20, 1869.		
98,474 Darozir, Levi, Jan. 4, 1870, . . . . . 533 200 References—Bartholomew, D. B. (Rejected case). Filed May 12, 1865. Glason, J. M. (Rejected case). Filed Nov. 16, 1868. Burrall, G. B. (Rejected case). Filed March 1, 1861.		
98,657 Anderson, D. M., Jan. 11, 1870, 533 200 References—Johnson, 34,369. Feb. 11, 1862. Bartholomew, D. B. (Rejected case). Filed May 12, 1865. Burrall, G. B. (Rejected case). Filed March 1, 1861.		
107,345 Douglas, Charles H., Sept. 13, 1870, 533 200 References—Wood, S. A., 85,501. Dec. 29, 1868.		
114,783 Erd, William, May 16, 1871, 534 200 References—Purvis, A., 93,833. Aug. 17, 1869.		
123,691 Gray, Chester H., Feb. 13, 1872, 534 200 No references.		
136,750 Nevers, William, March 11, 1873, 534 200 No references.		
148,257 Stewart, Sylvester N., March 3, 1874, . . . . . 534 200 References—Bannahr, John, 65,633. June 11, 1867. Slater, J. June 3, 1873. Darozir, L. 98,474. Jan. 4, 1870. Anderson, D. M., 98,657. Jan. 11, 1870. Maltby, H. A., 123,571. Feb. 13, 1872.		

P. C.	P. C.
149,393 Hammelmann, Charles, April 7, 1874, . . . . . 535 201	283,697 Branham, Alvin J., Aug. 21, 1883, . . . . . 540 202
References—Monroe, J., 87,225. Feb. 9, 1869. Simpson, J., 90,595. May 25, 1869.	References—Smith & Thurston, 196,943. Nov. 6, 1877. Hall, 2,007 of 1880. English.
165,481 Day, Charles M., July 13, 1875, 535 201	295,491 Funk, Elliott H., March 18, 1884, 540 202
References—Bannister, J., 65,633. June 11, 1867.	References—Story, 167,627. Sept. 14, 1875. Bray, 256,634. April 18, 1882.
167,627 Story, Joseph M., Sept. 14, 1875, 535 201	295,719 Bernhard, Charles, March 25, 1884, . . . . . 540 202
References—Gleason, J. M. (Rejected case.) Filed Nov. 16, 1868. Kidder, 34,718. March 18, 1862.	No references.
182,095 Arnao, Juan, and Juan, Jr., Sept. 12, 1876, . . . . . 535 201	302,044 Snyder, Peter A., July 15, 1884, 541 203
References—Story, 167,627. Sept. 14, 1875. Kidder, 34,718. March 18, 1862. Johnson, 34,369. Feb. 11, 1862.	References—Menuez, 201,265. March 12, 1875.
201,265 Menuez, Vincent A., March 12, 1878, . . . . . 536 201	303,753 Sandford, Charles, and Kninne, Porter S., Aug. 19, 1884, . . . . . 541 203
References—Kidder, 34,718. March 18, 1862. Huntsman, 86,345. Feb. 2, 1869. Bowling, 5,30. Dec. 26, 1837. Arano, 182,095. Sept. 12, 1876. Barneit, 20,318. May 25, 1858.	No references.
205,196 Mahedy, James, June 25, 1878, 536 201	311,862 Wünsch, Christian, Feb. 3, 1885, 541 203
No references.	References—Bray, 256,634. April 18, 1882. Funk, 205,491. March 18, 1884. Huntsman, 86,545. Feb. 2, 1869.
209,083 Schlüter, Rudolph, Oct. 15, 1878, 536 201	312,388 Sampson, George T., Feb. 17, 1885, 542 203
References—Day, 165,481. July 13, 1875. De Bernales, 185,856. Jan. 2, 1877. Story, 167,627. Sept. 14, 1875.	No references.
209,367 Upton, William H., Oct. 29, 1878, 536 201	328,415 Loose, John Oct. 13, 1885, . . . . . 542 203
References—Darozi, 98,474. Jan. 4, 1870. Day, 165,481. July 13, 1875.	No references.
211,867 Smith, Andrew A., Feb. 4, 1879, 537 201	330,786 Hussong, Joseph, Nov. 17, 1885, 542 203
References—Menuez, 201,265. March 12, 1878. Libby, 88,492. March 30, 1869. Robinson, 86,251. Jan. 12, 1869. Jennings, 94,215. Aug. 31, 1869.	References—Sampson, 312,388. Feb. 17, 1885. Fuller, 282,302. July 31, 1883.
211,868 Smith, Andrew A., Feb. 4, 1879, 537 201	340,643 Wacker, Andrew, April 27, 1886, 543 203
No references.	References—Hammelmann, 149,393. April 7, 1874. Darozi, 98,474. Jan. 4, 1870.
223,118 Dennis, James H., Dec. 30, 1879, 537 202	342,257 Heidorf, Joseph, May 18, 1886, 543 203
References—Menuez, 201,265. March 12, 1878. Browne, 215,876. May 27, 1879. Darozi, 98,474. Jan. 4, 1870. Anderson, 98,657. Jan. 11, 1870.	References—Rucevan, 73,108. Jan. 7, 1868. Loose, 328,415. Oct. 13, 1885. Bernhard, 243,195. June 21, 1881.
243,195 Bernhard, Charles, June 21, 1881, 538 202	343,898 Foster, Frank F., June 15, 1886, 543 203
References—Hammelmann, 149,343. April 7, 1874. Merriman, 95,032. Sept. 21, 1869.	References—Sampson, 312,388. Feb. 17, 1885. Hussong, 330,786. Nov. 17, 1885.
247,686 Ray, John L., Sept. 27, 1881, . . . . . 538 202	347,160 Daimler, Gottlieb, Aug. 10, 1886, 543 204
References—Dennis, 223,118. Dec. 30, 1879. Anderson, 98,657. Jan. 11, 1870.	No references.
249,122 Uster, John, Nov. 1, 1881, . . . . . 538 202	351,771 Hiler, Giles P., Nov. 2, 1886, 544 204
References—Huntsman, 86,345. Feb. 2, 1869.	References—Snyder, 302,044. July 15, 1884. Sanford & Kime, 303,753. Aug. 19, 1884. Huntsman, 86,545. Feb. 2, 1869.
256,634 Bray, James B., April 18, 1882, 539 202	359,504 Foster, Frank F., March 15, 1887, 544 204
References—Arnao, 182,095. Sept. 12, 1876.	References—Hussong, 330,786. Nov. 17, 1885.
266,945 Woodham, Augustus, F., Oct. 31, 1882, . . . . . 539 202	369,224 Batchelder, Edwin F., Aug. 30, 1887, . . . . . 545 204
References—Barnett, 20,318. May 25, 1858.	References—Hiler, 351,771. Nov. 2, 1886. Bray, 256,634. April 18, 1882. Arnao, 182,095. Sept. 12, 1876. Uster, 249,122. Nov. 1, 1881. Huntsman, 86,345. Feb. 2, 1869. Oliver, 97,683. Dec. 7, 1860. Martin, 339,446. April 6, 1886.
282,302 Fuller, Lysander A., July 31, 1883, . . . . . 539 202	375,914 Baird, William J., Jan. 3, 1888, 545 204
References—Story, 167,627. Sept. 14, 1875. Darozi, 98,474. Jan. 4, 1870. Anderson, 98,657. Jan. 11, 1870.	References—Lee, 365,392. June 28, 1887. Chapman, 199,897. Feb. 5, 1878. Karr, 139,396. May 27, 1873.
282,897 Ivett, Daniel R., Aug. 7, 1883, . . . . . 540 202	381,956 Schemmel, Julius, May 1, 1888, 539 205
References—Braun, 92,574. July 13, 1869. Story, 167,627. Sept. 14, 1875. Johnson, 34,369. Feb. 11, 1862. Willis, 84,979. Dec. 15, 1868.	References—Hussong, 330,786. Nov. 17, 1885. Sanford & Kime, 303,753. Aug. 19, 1884.
	383,401 Marble, William S., May 22, 1888, 545 205
	References—Loose, 328,415. Oct. 13, 1885. Hammelmann, 149,393. April 7, 1874.

P.	C.	P.	C.
Hiler, 351,771. Nov. 2, 1886. Bernhard, 323,195. June 21, 1881. Sanford & Kinne, 303,753. Aug. 19, 1884.		455,932 Terski, Leopold, July 14, 1891, . . . . . 550 207 References—Snyder, 302,044. July 15, 1884.	
387,814 Ribble, George B. M., and Spencer, Charles C., Aug. 14, 1888, . . . . . 546 205 No references.		459,850 Arney, Frank J., Sept. 22, 1891, 550 207 References—Ribble & Spencer, 387,814. Aug. 14, 1888. Baird, 375,914. Jan. 3, 1888.	
390,368 Holtkamp, Herman H., Oct. 2, 1888, . . . . . 546 205 References—Uster, 249,122. Nov. 1, 1881. Huntsman, 86,545. Feb. 2, 1860.		77,478 Gleason, O. T., May 5, 1868, . . . . . 550 252 No references.	Railroad.
393,071 Kiihr, Charles M., Nov. 20, 1888 546 205 No references.		89,584 Irwin, John H., May 4, 1869, . . . . . 551 252 No references.	
394,409 Snyder, Peter A., Dec. 11, 1888, 546 205 References—Sampson, 312,388. Feb. 17, 1885. Batchelder, 369,224. Aug. 30, 1887.		93,159 Aspinwall, John A., and Perry, Charles M., Aug. 3, 1869, . . . . . 551 252 References—Hotchkiss, Geo. June 2, 1836. Plagge, Charles. Oct. 29, 1867. Racey, Wm. H., 96,302. May 18, 1869.	
398,465 Sprake, Charles, Feb. 26, 1889, . . . . . 547 205 References—Bray, 256,634. April 18, 1882. Snyder, 302,044. July 15, 1884. Hiler, 351,771. Nov. 2, 1886. Hammelmann, 149,393. April 7, 1874.		93,348 } Aspinwall, John A., and Perry, 93,159 } Charles M., (R.) Aug. 24, 1880, 551 252 No references.	
407,623 Talbott, Sylvanus J., July 23, 1889, . . . . . 547 205 References—Hembold, 157,823. Dec. 15, 1874. Draper, 395,553. Jan. 1, 1889. Searing, 95,521. Oct. 5, 1869. Arnao, 182,095. Sept. 12, 1876. Hiler, 351,771. Nov. 2, 1886.		116,062 Johnston, David, June 21, 1871, 551 253 References—Wood, S. A., 85,501. Dec. 29, 1868. White, J. J., 88,930. April 13, 1869. McMillian, J. W., 91,035. June 8, 1869. Hess, T. F., (Forfeited case). 1867. Day, B. I. Jan. 12, 1869. Beekman, W. T. Feb. 21, 1871.	
407,876 Robinson, Joseph E., July 30, 1889, . . . . . 547 205 References—Hiler, 351,771. Nov. 2, 1886. Hammelmann, 149,393. April 7, 1874. Hussong, 330,786. Nov. 17, 1885.		213,254 Sheffield, George S., March 11, 1879, . . . . . 552 253 References—Hunt, D. M., 136,652. March 11, 1873. Ferris, O. C., 148,436. March 10, 1874. Aspinwall & Perry, 93,159. Aug. 3, 1869. 9,571 } Sheffield, George S., (R.) Feb. 15, 213,254 } 1881, . . . . . 552 253 References—Aspinwall & Perry, 93,159. Aug. 3, 1869. Maltby, H. A., 110,057. Dec. 13, 1870.	
410,220 Thomas, John D., Sept. 3, 1889, 548 206 References—Hammelmann, 149,393. April 7, 1874. Loose, 328,415. Oct. 13, 1885. Darozir, 95,474. Jan. 4, 1870. Funk, 295,491. March 18, 1884. Foley, 93,190. Aug. 3, 1869.		10,303 } Sheffield, George S., (R.) April 3, 213,254 } 1883, . . . . . 552 253 No references.	
419,562 Robertson, James C., Jan. 14, 1890, 548 206 References—Anderson, 301,874. Oct. 30, 1888. Hussong, 330,786. Nov. 17, 1885.		215,334 Davenport, Nelson, May 13, 1879, 553 253 References—Aspinwall & Perry, 93,159. Aug. 3, 1869.	
421,933 Hennessy, Thomas F., Feb. 25, 1890, . . . . . 548 206 References—Baird, 375,914. Jan. 3, 1888. Draper, 395,553. Jan. 1, 1889.		225,585 Fox, Willard H., March 16, 1880, 553 253 No references.	
433,829 Stamford, John, Aug. 5, 1890, . . . . . 549 206 References—Ribble & Spencer, 387,814. Aug. 14, 1888. Smith, 211,867. Feb. 4, 1879. Davis, 410,751. Sept. 10, 1889. Glover, 342,596. May 25, 1886. Bernhard, 295,719. March 25, 1884.		229,252 Hill, Edward K., Tolman, Edward F., and Howland, Arthur H., June 29, 1880, . . . . . 553 254 References—Lawrence, 89,543. April 27, 1869. Crandall, 92,273. July 6, 1869.	
441,545 Flickinger, William F., and Wiett, George J., Nov. 25, 1890, . . . . . 549 206 References—Anderson, 98,657. Jan. 11, 1870. Ray, 247,686. Sept. 27, 1881. Thomas, 410,220. Sept. 3, 1889.		246,000 Ferres, Jeffery T., Aug. 23, 1881, 554 254 References—Pressey, 234,722. Nov. 23, 1880. French, 224,415. Feb. 10, 1880. Sheffield, 213,254. Nov. 11, 1879. Davenport, 215,334. May 13, 1879.	
443,499 Coram, Stephen, and Kuolt, Jos- eph, Dec. 30, 1890, . . . . . 549 206 References—Prior, 273,147. Feb. 27, 1883. Williams, 349,773. Sept. 28, 1886. Lorenz, 393,228. Aug. 5, 1884. Daimler, 347,160. Aug. 10, 1886. Dutton, 349,449. April 15, 1862. Ball, 168,211. Sept. 28, 1875. Righter, 121,663. Dec. 5, 1871. Ivett, 282,807. Aug. 7, 1883. Sanford & Kinne, 303,753. Aug. 19, 1884. Wood, 85,501. Dec. 29, 1868. Searing, 95,521. Oct. 5, 1869.		249,251 Murphy, Jeremiah, Nov. 8, 1881, 554 254 References—Aspinwall & Perry, 93,159. Aug. 3, 1869. Sheffield, 213,254. March 11, 1879.	
		249,895 Campbell, Omer F., and Prindle, Frank L., Nov. 22, 1881, . . . . . 554 254 References—Davenport, 215,334. May 13, 1879. Fox, 225,585. March 16, 1880.	
		255,589 Mosher, George A., May 30, 1882, 555 254 References—Hill et al., 229,252. June 29, 1880. Anderson, 91,589. June 22, 1869. Davenport, 215,334. May 13, 1879.	
		259,411 McCombs, Paul, June 13, 1882, 555 254 No references.	

P.	C.	P.	C.
260,903 Sheffield, George S., July 11, 1882, .	556 254	312,332 Copp, Charles H., Feb. 17, 1885, .	561 257
References—Glover, 226,304. April 6, 1880.		References—Wheeler, 34,471. Feb. 18, 1862.	
Hill, 253,286. Feb. 7, 1882.		Pole, 237,697. Feb. 15, 1881.	
Ferres, 246,000. Aug. 23, 1881.		317,437 Beach, David H., May 5, 1885, .	561 257
Trautman, 229,532. July 6, 1880.		References—Stock, 261,966. Aug. 1, 1880.	
Gregg, 125,451. April 9, 1872.		Brewer, 267,772. Nov. 21, 1882.	
3,090 of 1877. English.		Quinn, 89,584. May 4, 1869.	
261,966 Stock, Hosea T., Aug. 1, 1882, .	556 255	Mason, 305,616. Sept. 23, 1884.	
References—Guy, 93,433. Aug 10, 1860.		1,046 of 1859. English.	
Lawrence, 178,066. May 30, 1876.		323,966 Spatzier, August W., Aug. 11,	
Way, 71,562. Nov. 26, 1867.		1885, . . . . .	561 257
263,990 Stoner, Allen M., Sept. 5, 1882, .	557 255	References—Massereno, 8,417. Oct. 7, 1851.	
References—Lockhart, 231,183. Aug. 17, 1880.		Braner, 95,867. Oct. 12, 1869.	
Murphy, 249,251. Nov. 8, 1881.		352,952 Ingraham, Alfred W., Nov. 23,	
264,481 Sheffield, George S., Sept. 19, 1882, .	557 255	1886, . . . . .	562 257
References—Davenport, 215,334. May 13, 1879.		References—1,447 of 1863. English.	
Campbell & Prindle, 249,895. Nov. 22,		Andrews, 95,629. Oct. 12, 1869.	
1881.		Avery, 146,159. Jan. 6, 1874.	
269,490 Walz, Samuel H., Dec. 19, 1882, .	557 255	Denovan, 86,738. Feb. 9, 1869.	
References—Hill, 253,286. Feb. 7, 1882.		354,318 Hayes, William, Dec. 14, 1886, .	562 257
Trautman, 248,531. Oct. 18, 1881.		References—Randall, 207,480. Jan. 29, 1883.	
269,906 Willits, Warren J., Jan. 2, 1883, .	557 255	Canda, 344,103. June 22, 1886.	
References—Smith 89,693. May 4, 1869.		376,073 Collier, Charles L., Jan. 10, 1888, .	563 257
Wortman, 93,030. July 27, 1869.		References—Sheffield, (R.) 10,393. April 3, 1883.	
Schmitt, 91,169. June 8, 1869.		Linsley, 270,320. Jan. 9, 1883.	
Sheffield, 213,254. March 11, 1879.		Brown, (R.) 5,274. Feb. 11, 1873.	
270,320 Linsley, Edward B., Jan. 9, 1883, .	558 255	Wortmann, 93,030. July 22, 1869.	
References—Davenport, 215,334. May 13, 1879.		Kenyon, 143,513. Oct. 7, 1873.	
Sheffield, (R.) 9,571. Feb. 15, 1881.		419,591 Mayfield, Reuben N., Jan. 14, 1890, .	563 257
Brown, (R.) 5,273. Feb. 11, 1873.		References—Campbell & Prindle, 249,895. Nov. 22,	
Hopkins & Cooke, 159,266. Feb. 2, 1875.		1881.	
Libby, 88,492. March 30, 1869.		Walz, 269,490. Dec. 19, 1882.	
270,480 Randall, Francis W., Jan. 9, 1883, .	558 255	Sheffield, 204,481. Sept. 19, 1882.	
References—Cheever, 86,504. Feb. 2, 1869.		Sharp, 1,851. Jan. 10, 1865.	
Campbell & Prindle, 249,895. Nov. 22,		427,663 Brady, Frank, May 13, 1890, .	564 257
1881.		References—Aspinwall & Perry, 93,159. Aug. 3, 1869.	
Parkyns, 4,999 of 1880. English.		Davenport, 215,334. May 13, 1879.	
271,720 Linsley, Edward B., Feb. 6, 1883, .	559 256	Murphy, 249,251. Nov. 8, 1881.	
References—Fox, 225,585. March 16, 1880.		Cornwall, 180,847. Aug. 8, 1876.	
Mosher, 255,589. May 30, 1882.		Pratt & Thompson, 41,940. March 15, 1864.	
Sheffield, (R.) 9,571. Feb. 15, 1881.		Trowbridge, 271,994. Feb. 6, 1883.	
Neale, 98,692. Dec. 21, 1869.		Richardson, 364,545. June 7, 1887.	
Glover, 226,304. April 6, 1880.		Youman, 29,537. Aug. 7, 1866.	
282,528 Jeffery, Thomas B., Aug. 7, 1883, .	559 256	Leach, 102,280. April 26, 1870.	
References—Gleason, 77,478. May 5, 1868.		Hanks, 384,759. June 19, 1888.	
Hodge, 9,054. June 22, 1852.		Hopkins, 401,275. April 9, 1889.	
Moser, 255,589. May 30, 1882.		435,977 McKee, Newton, Sept. 9, 1890, .	564 258
Hanchett et al., 109,408. Nov. 22, 1870.		References—Wolf, 391,499. Oct. 23, 1888.	
Bruns, 19,676. March 23, 1858.		Sheffield, 260,237. Dec. 19, 1882.	
286,623 McGaffey, Ives W., Oct. 16, 1883, .	559 256	Ellis, 280,290. June 26, 1883.	
References—Campbell & Prindle, 249,894. Nov. 22,		Piper, 90,869. June 1, 1860.	
1881.		Hant, 82,319. Sept. 22, 1868.	
Ferres, 246,000. Aug. 23, 1881.		Schmitt, 91,169. June 8, 1869.	
Sheffield, 213,254. March 11, 1879.		436,811 Stump, Ira E., Sept. 23, 1890, .	564 258
287,732 Shanck, Henry K., Oct. 30, 1883, .	559 256	No references.	
References—Hodge, 9,054. June 22, 1852.		447,935 Brady, Frank, March 10, 1891, .	565 258
2,372 of 1879. English.		References—Anderson, 91,589. June 22, 1869.	
288,507 Spencer, George N., Nov. 13, 1883, .	560 256	Spencer, 288,507. Nov. 13, 1883.	
No references.		Walz, 269,490. Dec. 19, 1882.	
289,017 Miller, George W., Nov. 27, 1883, .	560 256	1,329 of 1884. English.	
References—Brewer, 267,772. Nov. 21, 1882.		462,908 Brady, Frank, Nov. 10, 1891, .	565 258
Walz, 269,490. Dec. 19, 1882.		References—Aspinwall & Perry, 93,159. Aug. 3, 1869.	
Chase, 70,690. Nov. 12, 1867.		Davenport, 215,334. May 13, 1879.	
289,907 Gleason, Orville T., Dec. 11, 1883, .	560 256	Murphy, 249,251. Nov. 8, 1881.	
References—Fox, 225,585. March 16, 1880.		Dumble & Kinley, 298,736. May 20, 1884.	
Gleason, 77,478. May 5, 1868.		Linsley, 270,320. Jan. 9, 1883.	
306,001 Cook, John II., Sept. 30, 1884, .	560 256	Sheffield, 213,334. Sept. 10, 1882.	
References—Danbar & Kinley, 298,736. May 20, 1884.		Sheffield, 204,481. Sept. 19, 1882.	
Sheffield, 213,254. May 11, 1879.		Glover, 226,304. April 6, 1880.	
Willits, 269,906. Jan. 2, 1883.		Willits, 269,906. Jan. 2, 1883.	
464,357 Gibson, Myron B., Dec. 1, 1891, .	566 259	No references.	

P.	C.
Metal Working, Manufacture of Cycle Parts.	
198,707 Taylor, Thomas, Dec. 25, 1877, .	567 304
No references.	
224,215 Newlin, William, Feb. 3, 1880, .	567 304
References—1,381 of 1872. English.	
250,289 Russell, Henry T., Nov. 29, 1881, 567 304	
References—Morse, 96,251. Oct. 26, 1869. Kip, 184,158 Nov. 7, 1876. Hammond, 70,998. Nov. 19, 1867.	
250,980 Russell, Henry T., Dec. 13, 1881, 568 304	
References—Morse 94,630. Sept. 7, 1869. Clapp & Van Patten, 148,873. March 24, 1874. Billings, 153,885. Aug. 11, 1874. 5,295 of 1879. English. 1,799 of 1869. 2,344 of 1869. "	
250,981 Russell, Henry T., Dec. 13, 1881, 569 304	
References—"The American Bicycle" p. 181, vol. 42 of Scientific American. Morse, 96,251. Oct. 26, 1869.	
273,746 Little, James R., March 13, 1883, 571 304	
References—Shaw, 166,151. July 27, 1875. Loughridge, 117,902. Aug. 8, 1871. Dimmick, 143,813. Oct. 21, 1873. Rowe, 4,946. Jan. 26, 1847.	
10,842 Little, James R., (R.) June 7, 273,746 f 1887, . . . . .	571 305
No references.	
10,843 Little, James R., (R.) June 7, 273,746 f 1887, . . . . .	572 305
No references.	
313,083 Knous, John, and Wallace, Albert E., March 3, 1885, . . . . .	572 305
No references.	
321,758 Sattley, Marshall, July 7, 1885, 573 305	
References—Stoliker, 50,425. Oct. 10, 1865. Crowell, 244,742. July 26, 1881.	
328,987 Warwick, George T., Oct. 27, 1885, 573 305	
References—Russell & Wood, 314,980. March 31, 1885. Roose, 11,360 of 1846. English.	
334,253 Little, James R., Jan. 12, 1886, 573 305	
No references.	
334,254 Little, James R., Jan. 12, 1886, 574 306	
References—King, 148,071. March 3, 1874. Palica, (R.) 5,565. Sept. 9, 1873.	
337,172 Little, James R., March 2, 1886, 574 306	
References—Doane & Bugbee, 249,026. Nov. 1, 1881.	
338,988 Little, James R., March 30, 1886, 575 306	
References—Bettendorf, 325,585. Sept. 1, 1885.	
361,952 Little, James R., April 26, 1887, 576 306	
References—Little, 334,250. Jan. 12, 1886. Little, 338,988. March 30, 1886. Little, 334,252. Jan. 12, 1886. Bettendorf, 325,585. Sept. 1, 1885. Bettendorf, 335,882. Feb. 9, 1886.	
370,396 Jeffery, Thomas B., Sept. 27, 1887, . . . . .	570 306
No references.	
374,542 Knous, John, Dec. 6, 1887, . .	576 307
No references.	
392,252 Zimmerman, George J., Nov. 6, 1888, . . . . .	576 307
References—Barnet, 293,934. Feb. 10, 1884.	
396,796 Zimmerman, George J., Jan. 29, 1889, . . . . .	577 307
References—Barnet, 293,934. Feb. 19, 1884.	
397,189 Jeffery, Thomas B., Feb. 5, 1889, 578 308	
References—Warwick, 4,180 of 1885. English. Wilson, 161,848. April 6, 1875. Brown & Andrews, 14,945 of 1885. English. Bown & Overman, 15,422 of 1884. "	
397,405 Warwick, George T., Feb. 5, 1889, 578 308	
References—Jeralds et al., 118,858. Sept. 12, 1871.	
403,347 Harris, Frank H., May 14, 1889, 578 308	
No references.	
	Interference with application of A. W. Grant. Decision favorable to Harris.
406,747 Little, James R., July 9, 1889, .	579 308
References—Owsley, 285,763. Sept. 25, 1883. Little, 273,746. March 13, 1883. Little, 313,004. Feb. 24, 1885.	
	Interference with application of W. P. Bettendorf. Dissolved.
422,689 Armstrong, Frank, March 4, 1890, 579 308	
No references.	
424,084 Unwin, Howard, March 25, 1890, 580 309	
No references.	
445,303 Southard, Frank, Jan. 27, 1891, .	580 309
No references.	
Ball Bearings, For Axels, Cranks, Forks and Pedals.	
249,278 Wallace, Albert E., Nov. 8, 1881, 580 290	
References—Hughes, 227,632. May 18, 1880. Saloman, 230,372. Jan. 4, 1881. Weaver, 177,181. May 9, 1876.	
270,214 Forsman, Calvin J., Jan. 9, 1883, 580 290	
References—1,608 of 1879. English. 369 of 1879. " 1,227 of 1880. "	
275,917 Jeffery, Thomas B., April 17, 1883, 581 290	
References—Fickering, 88,507. March 30, 1869. 911 of 1881. English.	
280,421 Wallace, Albert E., July 3, 1883, 581 291	
References—3,027 of 1879. English. 1,608 of 1879. "	
280,633 Latta, Emmit G., July 3, 1883, 581 291	
References—5,046 of 1880. English. Delcaskamp, 268,655. Dec. 5, 1882. Dimmick, 143,813. Oct. 21, 1873. 1,438 of 1869. English. 6,540 of 1834. "	
287,476 Schaaf, Albert E., Oct. 30, 1883, 582 291	
No references.	
291,640 Latta, Emmit G., March 4, 1884, 583 291	
References—Vennor, 246,688. Sept. 13, 1881. 512 of 1881. English. 4,873 of 1880. " 134 of 1880. " 6,617 of 1834. " 1,438 of 1869. " Wallace, 249,278. Nov. 8, 1881. Howard & Stall, 249,622. Nov. 15, 1881.	
294,641 Latta, Emmit G., and Adrian C., March 4, 1884, . . . . .	583 292
References—1,34 of 1880. English. Sawyer, 222,537. Dec. 9, 1879. 5,043 of 1879. English. Vennor, 246,988. Sept. 13, 1881. 2,591 of 1880. English. Fielding & Bryant, 249,166. Nov. 8, 1881.	

P.	C.	P.	C.
Davis, 148,422. March 10, 1874. Sperry & Vandenberg, 263,982. Sept. 5, 1882.	*	353,330 Starley, John K., Nov. 30, 1886, 591 295 References—1,160 of 1880. English. 3,118 of 1877. " 4,687 of 1877. "	
295,161 Garrood, John C., March 18, 1884, 585 292 References—Schaaf, 287,476. Oct. 30, 1883.		354,511 Knous, John, Dec. 14, 1886, 592 296 No references.	
300,544 White, Joseph, June 17, 1884, . 585 292 No references.		354,638 Haynes, Gideon, Jr., and Schaaf, Albert E., Dec. 21, 1886, . . . . . 592 296 References—Rice, 321,053. June 30, 1885. Rice, 322,482. July 21, 1885. White, 300,544. June 17, 1884.	
306,510 Murray, Joseph S., Oct. 14, 1884, 586 292 References—Latta, 280,633. July 3, 1883. Wallace, 249,278. Nov. 8, 1881.		354,840 Pope, Harry M., Dec. 21, 1886, 592 296 References—Latta, 322,733. July 21, 1885. Jeffery, 275,917. April 17, 1883. Latta, 321,508. July 7, 1885.	
312,277 Latta, Emmit G., Feb. 17, 1885, 586 292 References—Young, 96,449. Nov. 9, 1869. Will & Uebel, 219,551. Sept. 9, 1870. Hillman, 3,027 of 1879. English. Wallace, 249,270. Nov. 8, 1881. Forsman, 270,214. Jan. 9, 1883. Salamon, 236,372. Jan. 4, 1881. Husberg, 3,564 of 1879. English. Murray, 260,114. June 27, 1882. Interference with application of Thomas Warwick. Decision favorable to Latta.		355,321 Jeffery, Thomas B., Jan. 4, 1887, 592 296 References—Wallace, 249,278. Nov. 8, 1881. Latta, 324,568. Aug. 18, 1885. Jeffery, 335,590. Feb. 9, 1886. 1,956 of 1877. English. 184 of 1884. "	
321,508 Latta, Emmit G., July 7, 1885, . 587 293 No references. Interference with application of John Knous. Decision favorable to Latta.		360,470 Palmer, John H., April 5, 1887, 593 296 References—3,090 of 1877. English. 190 of 1879. "	
322,733 Latta, Emmit G., July 21, 1885, . 587 293 References—Garrood, 295,161. March 18, 1884. Schaaf, 287,476. Oct. 30, 1883. Wallace, 280,421. July 3, 1883.		361,233 Parker, George A., April 12, 1887, 593 297 References—5,295 of 1879. English. 2,947 of 1882. "	
324,264 Latta, Emmit G., Aug. 11, 1885, 588 293 References—Benham, 277,870. May 22, 1883. Will & Uebel, 219,551. Sept. 9, 1879. Jeffery, 275,917. April 17, 1883. Wallace, 280,421. July 3, 1883. Wakefield, 115,914. June 13, 1871. Glat & Becker, 109,903. Nov. 1, 1870. Lamson, 253,211. Feb. 7, 1882. Latta, 301,245. July 1, 1884. Barrows & Cummings, 286,762. Oct. 16, 1883.		373,807 King, Homer A., Nov. 22, 1887, 593 297 References—Manning, 219,962. Sept. 23, 1889. Burton, 338,657. March 23, 1886. 3,052 of 1885. English. Straight, 106,669. Aug. 30, 1870. Barnes, 263,079. Aug. 22, 1882. King, 349,801. Sept. 28, 1886. King, 341,183. May 4, 1886. King, 349,802. Sept. 28, 1886.	
324,568 Latta, Emmit G., Aug. 18, 1885, 588 294 References—Latta, 301,245. July 1, 1884.		390,897 Perret, Richard A., Oct. 9, 1888, 594 297 No references.	
327,408 Pihlfeldt, Olaf, Sept. 29, 1885, . 589 294 References—2,361 of 1882. English.		392,956 Jackson, Josiah, Nov. 13, 1888, . 594 297 References—729 of 1881. English. 2,786 of 1880. " 1,871 of 1881. "	
328,235 Latta, Emmit G., Oct. 13, 1885, . 589 294 References—Rowlett, 300,737. June 17, 1884. Salamon, 236,372. Jan. 4, 1881. Rembert, 258,474. May 23, 1882. Rogers, 154,913. Sept. 8, 1874. Latta, 301,245. July 1, 1884. Work, 246,654. Sept. 6, 1881. Latta, 280,633. July 3, 1883. White, 300,544. June 17, 1884. 4,012 of 1880. English.		399,456 Warwick, George T., March 12, 1889, . . . . . 594 297 References—Latta, 294,640. March 4, 1884.	
338,657 Burton, George D., March 23, 1886, 590 295 References—Salamon, 236,372. Jan. 4, 1881. 369 of 1879. English. 1,608 of 1879. " 3,052 of 1885. "		409,782 Gaylor, Leonard B., Aug. 27, 1889, 595 298 References—Latta, 280,633. July 3, 1883. Healey, 301,234. July 4, 1884. Baker, 116,795. July 11, 1871. 4,994 of 1880. English. Moore, 365,015. June 14, 1887.	
341,816 Parker, George A., May 11, 1886, 590 295 No references.		422,232 Layender, Charles F., Feb. 25, 1890, . . . . . 595 298 No references.	
351,001 Starley, John K., Oct. 19, 1886, 590 295 No references.		422,723 Carstensen, Larsen F., March 4, 1890, . . . . . 595 298 References—White, 300,544. June 17, 1884. Kelley, 321,819. July 7, 1885.	
352,841 Starley, John K., Nov. 16, 1886, 591 295 References—Starley, 5,046 of 1880. English.		428,577 Torkelson, Reinhard T., May 20, 1890, . . . . . 595 298 No references.	
		433,173 Jett, John, July 29, 1890, . . . . . 596 299 References—King, 353,071. Nov. 23, 1886. Owen, 365,691. June 21, 1887. Waldo, 284,781. Sept. 11, 1883. Warwick, 315,094. April 7, 1885.	

- 437,997 Kenney, Thomas M., Oct. 7, 1890, 596 299  
 References—Gaylor, 409,782. Aug. 27, 1889.  
 448,509 Donnelly, Samuel A., March 17,  
 1891, . . . . . 596 299  
 No references.  
 456,664 Tector, Abe L., July 28, 1891, . . 596 299  
 References—King, 373,807. Nov. 22, 1887.  
 Knous, 354,511. Dec. 14, 1886.  
 Kunath, 401,748. April 23, 1889.  
 Marsh, 235,546. Dec. 14, 1880.  
 4,169 of 1884. English.  
 18,827 of 1888. "  
 10,369 of 1888. "

## Rowing.

- 170,629 Howard, William T. and George H., Nov. 30, 1875, . . . . . 597 222  
 References—Hall, 91,123. June 8, 1869.  
 224,415 French, Charles L., Feb. 10, 1880, 597 222  
 References—Howard & Howard, 170,629. Nov. 30,  
 1875.  
 230,838 Tripler, Charles E., and Roff,  
 William H., Aug. 3, 1880, . . . . . 597 222  
 References—Howard, 170,629. Nov. 30, 1875.  
 Seagraves, 169,302. Oct. 26, 1875.  
 305,053 Cumming, John F., Sept. 16, 1884, 598 223  
 References—Blake, 84,163. Nov. 17, 1868.  
 French, 224,415. Feb. 10, 1880.  
 Elliott, 288,219. Nov. 13, 1883.  
 305,198 Kempster, Daniel E., Sept. 16,  
 1884, . . . . . 598 223  
 References—Howard, 170,629. Nov. 30, 1875.  
 French, 224,415. Feb. 10, 1880.  
 1,098 of 1882. English.  
 Barker & Anderson, 228,800. June 15,  
 1880.  
 Trowbridge, 282,589. Aug. 7, 1883.  
 Haynes, 98,592. Jan. 4, 1870.  
 Wirtz, 91,398. Jan. 15, 1869.  
 Zoell, 280,876. Oct. 8, 1878.  
 348,619 Courtney, Charles E., Sept. 7,  
 1886, . . . . . 599 223  
 References—French, 224,415. Feb. 10, 1880.  
 Cummings, 205,198. Sept. 16, 1884.  
 Elliott, 288,219. Nov. 13, 1883.  
 Fancher, 227,740. May 18, 1880.  
 Fearon, 255,265. March 21, 1882.  
 369,860 Kempster, Daniel E., Sept. 13,  
 1887, . . . . . 600 223  
 References—French, 224,415. Feb. 10, 1880.  
 Kempster, 305,198. Sept. 16, 1884.  
 Courtney, 348,619. Sept. 7, 1886.  
 Unicker, 237,415. May 2, 1882.  
 3,577 of 1876. English.  
 427,110 Quevedo, Narciso T., May 6, 1890, 601 223  
 No references.  
 453,151 Mendenhall, Amos, May 26, 1891, 602 224  
 References—Janson, 115,212. May 23, 1871.  
 Watt, 203,968. May 21, 1878.  
 834 of 1869. English.  
 3,469 of 1868. "

## Spring Propelled.

- 53,214 Bradford, Charles K., March 13,  
 1866, . . . . . 602 314  
 No references.

- 65,199 Fisher, D. S., May 28, 1867, . . 602 314  
 No references.  
 76,814 Rhoads, Thomas, April 14, 1868, . . 603 314  
 References—Chase, Wm. K., 53,572. April 30, 1866.  
 80,206 Padrick, Oscar D., July 21, 1868, . . 603 314  
 No references.  
 87,287 Perry, Stuart, Feb. 23, 1869, . . 604 314  
 No references.  
 89,102 White, Thomas E. M., April 20,  
 1869, . . . . . 604 314  
 References—Longett, A., 36,160. Aug. 12, 1862.  
 Barr, S. W., 39,192. Oct. 2, 1860.  
 Blake, E. K. W., 84,163. Nov. 17, 1868.  
 92,306 Hares, Thomas A., July 6, 1869, . . 604 314  
 References—Padrick, 80,206. July 21, 1868.  
 Fisher, 65,199. May 28, 1867.  
 94,068 Browne, A. W., Aug. 24, 1869, . . 604 314  
 No references.  
 101,993 Forsyth, Frederick J., April 19,  
 1870, . . . . . 605 314  
 No references.  
 157,210 McClure, James F., Nov. 24, 1874, 605 315  
 References—Chase, Wm. K., 53,572. April 30, 1866.  
 Letter of May 10, 1874, not in the file.  
 169,302 Seagrave, Frederic S., Oct. 26,  
 1875, . . . . . 605 315  
 No references.  
 234,064 Rieder, Bartholoma, Nov. 2, 1880, 606 315  
 References—Seagrave, 169,302. Oct. 26, 1875.  
 267,589 Quin, Phineas, Nov. 14, 1882, 606 315  
 References—McClure, 157,210. Nov. 24, 1874.  
 Rhodes, 76,814. April 14, 1868.  
 267,607 Silver, Samuel N., Nov. 14, 1882, 607 315  
 References—1,909 of 1879. English.  
 Buchanan, 199,409. Jan. 22, 1878.  
 Napier, 93,469. Aug. 10, 1869.  
 Van Pelt, 190,101. Sept. 24, 1877.  
 Jones, 100,960. March 15, 1870.  
 Moore, 92,869. July 20, 1869.  
 287,939 Jenne, Charles H., Nov. 6, 1883, 608 315  
 No references.  
 288,219 Elliott, Leonard W., Nov. 13, 1883, 608 316  
 References—Tripler & Roff, 230,938. Aug. 3, 1880.  
 Blake, 84,163. Nov. 17, 1868.  
 Fishwick, 184,852. Nov. 28, 1876.  
 293,366 Silver, Samuel N., Feb. 12, 1884, 608 316  
 References—Crane, 258,559. May 30, 1882.  
 Cowels & Matten, 89,293. April 27, 1869.  
 Trautman, 248,531. Oct. 18, 1881.  
 Smith, 92,485. July 13, 1869.  
 Bradford, 53,214. March 13, 1866.  
 Watt, 203,968. March 21, 1878.  
 Sloan, 261,395. July 18, 1882.  
 Perry, 82,287. Feb. 23, 1869.  
 Ferres, 246,000. Aug. 28, 1881.  
 311,305 Garland, Richard H., Jan. 27, 1885, 610 316  
 No references.  
 322,071 Schwickert, August, Wilhelm, and  
 Edward, July 14, 1885, . . . . . 610 316  
 References—Woodruff, 293,837. Feb. 19, 1884.  
 324,749 Burroughs, John W., Aug. 18,  
 1885, . . . . . 612 317  
 References—Garland, 311,305. July 27, 1885.  
 Forsyth, 101,993. April 19, 1870.  
 Umstead, 160,487. March 2, 1875.  
 Flack, 167,517. Sept. 7, 1875.

P.	C.	P.	C.
329,003 Berrell, George B., Oct. 27, 1885,	612 317	10,256 } Adams, Edwin G., (R.) Dec. 5, 195,553 } 1882, . . . . .	621 172
No references.		References—Lells, 128, 178. Jenne 18, 1872. 5,056 of 1824. English. 271 of 1865. Lynn, 117, 307. July 25, 1871.	
337,975 Morgan, Schuyler W., March 16, 1886, . . . . .	613 317	281,091 Long, George A., July 10, 1883,	621 172
References—Forsyth, 101, 993. April 19, 1870. Rhodes, 70, 814. April 14, 1868. Devlan, 32, 758. July 9, 1851. Gregg, 125, 451. April 9, 1872. 3,700 of 1876. English. 21,138 of 1882. German.		References—Morris, 260, 887. July 11, 1882. 2,164 of 1880. English. Hancock, 194, 870. Sept. 4, 1877.	
331,768 Henry, John, Nov. 2, 1886, . . . . .	613 317	300,290 Troy, Daniel S., June 10, 1884,	621 172
No references.		References—Snyder, 197, 423. Nov. 20, 1877. Lynn, 117, 307. July 25, 1871.	
357,289 Pfautz, Daniel M., Feb. 8, 1887, . . . . .	614 317	317,893 Troy, Daniel S., May 12, 1885,	622 172
References—Seagrave, 169, 302. Oct. 26, 1875. Berrell, 329, 003. Oct. 27, 1886. Volk, 97, 837. Dec. 14, 1869.		References—Troy, 300, 290. June 10, 1884.	
361,024 Reed, Charles M., and Frazee, William C., April 12, 1887, . . . . .	615 318	331,276 Buell, Charles E., Dec. 1, 1885,	623 173
References—Jenne, 287, 939. Nov. 6, 1883. Berrell, 329, 003. Oct. 27, 1885.		References—Troy, 300, 290. June 10, 1884. Telegrapher Journal and Electrical Review, Nov. 18, 1882.	
382,311 Annin, Bryant W., May 8, 1888, . . . . .	615 318	336,372 Alldridge, Arthur H., Feb. 16, 1886, . . . . .	624 173
References—Berrell, 329, 003. Oct. 27, 1885.		References—11, 273 of 1846. English. 88 of 1854. " 1,467 of 1855. " 2,899 of 1867. " 669 of 1876. " 1,217 of 1886. "	
385,881 Sinkler, James F., July 10, 1888, . . . . .	616 318	360,760 Copeland, Lucius D., April 5, 1887, . . . . .	624 173
References—Padrick, 80, 206. July 21, 1868. Berrell, 329, 003. Oct. 27, 1885.		References—Cord, 212, 442. Feb. 18, 1879. 4,799 of 1880. English. 2,290 of 1880. "	
438,273 Miller, Austin E., Oct. 14, 1890, . . . . .	616 319	376,638 Daimler, Gottlieb, Jan. 17, 1888, . . . . .	625 173
References—Jansor, 115, 212. May 23, 1871. Jennings, 94, 215. Aug. 31, 1869.		References—2,208 of 1871. English. Daimler, 347, 160. Aug. 10, 1886. Perreux, 124, 621. March 12, 1872. Bodel et al., 169, 774. Nov. 9, 1875. Muehle, 96, 466. Nov. 2, 1869. Smith, 211, 868. Feb. 4, 1879. Ross, 68, 115. Aug. 27, 1869. 10,786 of 1885. English.	
447,331 Klahr, Davilla L., March 3, 1891, . . . . .	617 319	385,087 Benz, Carl, June 26, 1888, . . . . .	626 173
No references.		No references.	
452,562 Briggs, Frank, May 19, 1891, . . . . .	618 320	386,798 Benz, Carl, July 31, 1888, . . . . .	627 173
References—McClure, 157, 210. Nov. 24, 1874. Umstead, 160, 487. March 2, 1875. Forsyth, 101, 993. April 19, 1870. Beeger, 233, 396. Oct. 19, 1880. Jacobs, 318, 118. May 19, 1885. Herman, 227, 777. May 18, 1880. Garland, 311, 305. Jan. 27, 1885. Jenne, 287, 939. Nov. 6, 1883. Fisher, 65, 199. May 28, 1867.		No references.	
<hr/>			
Electrical, Compressed-Air, Gas and Steam.			
91,018 Holske, William F., and Babbitt, B. T., June 8, 1869, . . . . .	619 171	398,548 Smith, Hezekiah B., Feb. 26, 1889, . . . . .	629 174
References—Butterworth & Arnold. July 9, 1861. Rupel & Bond. 1865. Wood, S. A., 85, 501. Dec. 29, 1868. Bar, S. W., 30, 192. Oct. 2, 1860.		References—Maret, 346, 662. Aug. 3, 1886. Buell, 331, 276. Dec. 1, 1885. Troy, 300, 290. June 10, 1884. 14, 995 of 1885. English. Copeland, 360, 760. April 5, 1887. Crenzbaum, 173, 164. Feb. 8, 1876. Frick, 258, 401. May 23, 1882. Kelly & Dieter, 306, 493. Oct. 14, 1884. McKinley, 111, 761. Feb. 14, 1884. Warrington, 235, 051. Nov. 30, 1880. Bushnell, 259, 814. June 20, 1882.	
123,809 Coe, Lawrence W., Feb. 20, 1872, . . . . .	619 171	411,196 Huntington, Frank A., Sept. 17, 1889, . . . . .	629 174
References—Saladee, C. W. July 15, 1856. Smith, F. E. (Rejected case). Filed Dec. 21, 1860. Thomson, Robert W. Nov. 9, 1869. Rice, Z. (Rejected case).		References—Haynes, 98, 592. Jan. 4, 1870. Palmer, 23, 691. Oct. 26, 1880. Daimler, 313, 923. March 17, 1885. 5,007 of 1884. English.	
124,621 Perreux, Louis G., March 12, 1872, . . . . .	619 171	415,790 Perry, William P., Nov. 26, 1889, . . . . .	630 174
No references.		References—Long, 281, 091. July 10, 1883. Hagan, 390, 017. Sept. 25, 1888. Griffiths, 130, 712. Aug. 20, 1872.	
178,995 Carstens, Heinrich, W. F., June 20, 1876, . . . . .	620 171	426,384 Jasper, Wilhelm, April 22, 1890, . . . . .	630 174
No references.		No references.	
195,553 Adams, Edwin G., Sept. 25, 1877, . . . . .	620 171		
References—Lynn, 117, 307. June 18, 1872. Douthett, 107, 233. Sept. 13, 1870. Pierce, 129, 984. July 30, 1872.			

P.	C.	P.	C.
437,269 Wardman, Palmer, and Hollister, William, Sept. 30, 1890, . . . . .	631 175	228,908 Langmaak, Friedrick, and Streiff, Peter, June 15, 1880, . . . . .	635 177
References—Hicks, 396,872. Jan. 29, 1889. DeBogory, 416,095. Nov. 26, 1889. Loose, 328,415. Oct. 13, 1885. Bemis & Pfingst, 402,893. May 7, 1889. Lang, 339,995. April 13, 1886. Sprague, 413,151. Oct. 15, 1889. Bentley, 377,229. Jan. 31, 1888.		References—Henning, 92,528. July 13, 1869. Seagrave, 169,302. Oct. 26, 1875.	
439,395 Fleischer, Richard J., Oct. 28, 1890, . . . . .	1046 175	242,161 Scuri, G. Battista, May 31, 1881, 636 177	
References—Field, 229,991. July 13, 1880. Sherin, 5,390 of 1888. English. Sherin, 12,455 of 1888. Gounelle, 7,728 of 1852. French.		References—Ward, 88,683. April 6, 1869.	
444,130 Crawford, Harvey F., and Lam- bert, Richard C., Jan. 6, 1891, . . . . .	631 175	246,031 Otto, Edouard C. F., Aug. 23, 1881, . . . . .	636 177
References—Frie, 373,282. Nov. 15, 1887. Toense, 425,471. April 15, 1890. 18,411. German.		References—1,306 of 1877. English.	
444,131 Crawford, Harvey F., and Lam- bert, Richard C., Jan. 6, 1891, . . . . .	631 175	258,207 Ahlert, Joseph, May 23, 1882, . . . . .	638 178
No references.		References—Stearns, 86,700. Feb. 9, 1869. Ott, 87,285. Feb. 23, 1869. Green & Dyer, 91,535. June 22, 1869.	
<hr/>			
Monocycle, One-Wheel, Tricycle and Unicycle.			
87,285 Ott, Joseph J., Feb. 23, 1869, 632 176		265,056 Gable, William, and Pelton, Charles H., Sept. 26, 1882, . . . . .	638 178
No references.		References—Myers, 87,355. March 2, 1869. Ott, 246,031. Aug. 23, 1881.	
87,355 Myers, Frederick, March 2, 1869, 632 176		287,989 Ahlert, William F., Joseph P. and John G., Nov. 6, 1883, . . . . .	638 178
No references.		No references.	
88,683 Ward, Thomas W., April 6, 1869, 632 176		291,781 Schaffer, Charles M., Jan. 8, 1884, 639 178	
No references.		References—Hale, 92,044. June 29, 1869. Green & Dyer, 91,535. June 22, 1869.	
89,128 Colhu, Henry S., April 20, 1869, 632 176		297,300 Schaffer, Charles M., April 22, 1884, . . . . .	639 178
No references.		References—Fraser & Austin, 91,734. June 22, 1869. Ott, 87,285. Feb. 23, 1869. Elfers, 244,117. July 12, 1881.	
91,510 Bergner, George, June 22, 1869, 633 176		299,617 Burlinghausen, Bernard G., June 3, 1884, . . . . .	639 179
References—Davies, 13,485 of 1851. English. Myers, 87,355. March 2, 1869. Barr, S. W., 30,192. Oct. 2, 1860.		References—Fraser & Austin, 91,734. June 22, 1869. Hennings, 92,528. July 13, 1869. Lund, 91,550. June 22, 1869. Schaffer, 291,781. Jan. 8, 1884.	
91,534 Flanders, L. B., June 22, 1869, 633 176		311,112 Enos, John A., Jan. 20, 1885, . . . . .	639 179
References—Davis, 13,485 of 1851. English.		References—Hyde, 99,677. Feb. 8, 1870. 751 of 1862. English.	
91,535 Greene, Allen, and Dyer, Elisha, June 22, 1869, . . . . .	633 176	312,147 Mills, Francis E., Feb. 10, 1885, 640 179	
References—Ott, 87,285. Feb. 23, 1869. Paine, Wm. L., 88,189. March 23, 1869. Beck, J., 86,493. Feb. 2, 1869.		No references.	
91,550 Lund, John, June 22, 1869, . . . . .	633 176	325,548 Lose, John O., Sept. 1, 1885, . . . . .	640 179
References—Ott, 87,285. Feb. 23, 1869.		References—Johnson, 97,411. Nov. 30, 1869. Hennings, 92,528. July 13, 1869. Bergner, 91,510. June 22, 1869.	
91,734 Frazer, J., and Austin, Jonathan, June 22, 1869, . . . . .	634 176	344,059 Spree, L. E. Hugo, June 22, 1886, 641 179	
References—Burridge, T. H., July 31, 1860. Davies, 13,485 of 1851. English. Blanchard, N. L. (Rejected case.) Filed May 11, 1868.		References—Ahlert, 287,989. Nov. 6, 1883. Oldrieve, 245,012. Aug. 2, 1881. Green & Dyer, 91,535. June 22, 1869. Cummings, 87,913. March 16, 1869.	
91,829 Dillaha, J. G., June 29, 1869, . . . . .	634 177	379,849 Behr, Hermann, March 20, 1888, 641 179	
No references.		No references.	
92,044 Hale, H. F. T., June 29, 1869, . . . . .	634 177	388,763 Conger, Milton M., Aug. 28, 1888, 642 180	
References—Ott, 87,285. Feb. 23, 1869. Naramore, H. L., Sept. 11, 1866.		No references.	
92,528 Hemmings, Richard C., July 13, 1869, . . . . .	635 177	396,349 Behr, Hermann, Jan. 15, 1889, 642 180	
References—Davies, 13,485 of 1851. English.		References—Schaffer, 297,300. April 22, 1884. Ott, 87,285. Feb. 23, 1869. Behr, 379,849. March 20, 1880.	
96,124 Lewis, Edward A., Oct. 26, 1869, 635 177		459,310 Ross, Henry C., Sept. 8, 1891, . . . . .	643 181
No references.		References—Hale, 92,044. June 29, 1869. Ahlert, 287,989. Nov. 6, 1883. Spree, 344,059. June 22, 1886. Ahlert, 358,207. May 23, 1882. Schaffer, 297,300. Jan. 8, 1884.	
97,411 Johnson, Willis H., Nov. 30, 1869, 635 177			
References—Davies, 13,485 of 1851. English.			

P. C.	P. C.
Two Wheels, Seat Inside, or at Either Side. 273,815 Carr, Jerome S., March 13, 1883, 643 215 References—Hemings, 92,528. July 13, 1869. Monroe, 86,859. Feb. 9, 1869. Allen, 91,061. June 8, 1869. Libbey, 88,492. March 30, 1869. Davis, 93,067. July 27, 1869. Glover, 143,820. Oct. 21, 1873. Jefferson, 243,569. June 28, 1881. Wood, 208,553. Oct. 1, 1878. Gray, 252,371. Jan. 17, 1882.	393,230 Hedderwick, Percy D., Nov. 20, 1888, . . . . . 650 197 No references.
333,936 Duryea, Charles E., Jan. 5, 1886, 644 215 No references.	400,343 Jeffery, Thomas B., March 26, 1889, . . . . . 650 197 References—4,612 of 1877. English.
342,467 Ryland, Cains T. Jr., May 25, 1886, 644 215 References—Oldrieve, 24,512. Aug. 2, 1881. Ahler, 287,989. Nov. 6, 1883. Swenson, 314,154. March 17, 1885.	406,462 Overman, Albert H., July 9, 1889, 651 197 No references.
352,989 Burbank, Edward S., Nov. 23, 1886, . . . . . 645 216 References—Duryea, 333,936. Jan. 5, 1886. Carr, 273,815. March 13, 1883. Dillaha, 91,829. June 29, 1869.	Interference with application of Sterling Elliott. Decision favorable to Elliott. 412,322 Copeland, James S., Oct. 8, 1889, 651 197 References—13,782 of 1886. English. 12,586 of 1886. "
357,819 Duryea, Charles E., Feb. 15, 1887, 645 216 References—8,650 of 1885. English. Laubach, 86,235. Jan. 26, 1869. King, 349,801. Sept. 28, 1886.	417,401 Astor, John J., Jr., Dec. 17, 1889, 652 197 References—Jannus, 331,199. Nov. 24, 1885.
418,611 Garwood, Spencer, Dec. 31, 1889, 645 216 No references.	425,789 Hems, Jan A., April 15, 1890, . . . 652 198 References—Fowler, 224,165. Feb. 3, 1880. Giles, 324,455. Jan. 17, 1882. Hazen & Hildreth, 298,507. March 15, 1887. 17,524 of 1888. English.
422,089 Melin, Gustaf A., Feb. 25, 1890, 646 216 References—Burbank, 352,989. Nov. 23, 1886. Spree, 344,059. June 22, 1886. Johnson, 97,411. Nov. 30, 1869.	428,383 Elliott, Sterling, May 20, 1890, 652 198 References—Overman, 406,462. July 9, 1889. Interference with application of Albert H. Overman. Decision favorable to Elliott.
431,894 Horton, Numon N., July 8, 1890, 646 217 References—Fraser & Austin, 91,734. June 22, 1869. Latta, 337,271. March 2, 1886.	431,308 Ziegler, Oscar J., and Hance, Wil- liam A., July 1, 1890, . . . . . 652 198 References—Hanlon, 86,834. Feb. 9, 1869. Smith, 382,913. May 15, 1886. Schrader, 416,016. Nov. 26, 1889. Latta, 377,204. Jan. 31, 1888.
431,895 Horton, Numon N., July 8, 1890, 647 217 References—Duryea, 357,819. Feb. 15, 1887. Behr, 396,349. Jan. 15, 1889.	432,814 Black, David, July 22, 1890, . . . 653 198 References—Asbury, 285,946. Oct. 2, 1883. Leddell, 320,073. June 16, 1885. Owen, 398,745. Feb. 26, 1889. O'Brien, 413,415. Oct. 22, 1889. Latta, 375,253. Feb. 21, 1888. Allen, 294,178. Feb. 26, 1884. Britton, 353,917. Dec. 7, 1886.
433,508 Akers, William P., Aug. 5, 1890, 648 217 References—Carr, 273,815. March 13, 1883. Loose, 325,548. Sept. 1, 1885.	452,082 Redlinger, Michael, May 12, 1891, 653 199 References—16,679 of 1886. English.
436,239 Horton, Numon N., Sept. 9, 1890, 648 217 References—Schaffer, 297,300. April 22, 1884. Fraser & Austin, 91,734. June 22, 1869. Ott, 87,285. Feb. 23, 1866. Oldrieve, 245,012. Aug. 2, 1881. Allen, 94,057. Aug. 24, 1869. Behr, 379,849. March 20, 1888. 5,722 of English. 8,306 of ".	452,593 Boyd, James McD., May 19, 1891, 653 199 References—Jannus, 331,199. Nov. 24, 1885.
452,336 Breitenmoser, Joseph, May 12, 1891, . . . . . 649 218 References—Fraser & Austin, 91,734. June 22, 1869. Langaaik & Streiff, 228,908. June 15, 1880. Burbank, 352,989. Nov. 23, 1886. Carr, 273,815. March 13, 1883.	Detached Parts, Backbones, Forks, Heads, Etc.
Brakes.	245,071 Illston, George, Aug. 2, 1881, . . . 654 225 No references.
279,956 Knous, John, June 26, 1883, . . . 650 196 References—Woolson, 263,083. Aug. 22, 1882.	250,917 Hicks, Horace B., Dec. 13, 1881, 654 226 References—Unzicker, 242,490. June 7, 1881. 1,449 of 1877. English. 486 of 1879. " 3,875 of 1876. " 890 of 1877. "
300,261 Hull, George S., and Charles S., June 10, 1884, . . . . . 650 197 No references.	261,136 Cooley B. Frank, July 18, 1882, 655 226 References—2,720 of 1876. English. Interference with application of Henry Kellogg. Decision favorable to Cooley. 285,685 Scherling, Rudolph C., Sept. 25, 1883, . . . . . 655 226 References—1,160 of 1880. English.
	296,703 Mitchell, Oliver M., April 8, 1884, 655 226 References—Newell, 123,413. Feb. 6, 1872. Crowell, 281,018. July 17, 1883.

	P. C.		P. C.
312,732 Knous, John, and Wallace, Albert E., Feb. 24, 1885, . . . . .	656 226	367,883 Yost, Joseph L., and McCune, Joseph B., Aug. 9, 1887, . . . . .	661 230
No references.		References—Nye, 321,910. July 7, 1885.	
312,930 Thayer, Charles G., Feb. 24, 1885, 656 226		Richard, 252,624. Jan. 24, 1882.	
References—Padmore, 288,849. Nov. 20, 1883.		368,360 Trigwell, James R., Aug. 16, 1887, 661 230	
318,500 Pratt, Charles E., May 26, 1885, 656 226		References—Salmon, 236,372. Jan. 4, 1881.	
References—Salmon, 236,372. Jan. 4, 1881.		4,606 of 1879. English.	
325,420 Latta, Emmit G., and Adriau, C., Sept. 1, 1885, . . . . .	656 227	3,377 of 1882. "	
References—Robinson, 87,204. Feb. 23, 1869.		3,377 of 1882. "	
Unzicker, 242,490. June 7, 1881.		371,266 Knous, John, Oct. 11, 1887, . . . . .	662 230
Hull, 300,261. June 10, 1884.		No references.	
Foss, 302,329. July 22, 1884.		371,911 Andrews, William T., Oct. 25,	
Bacon, 249,447. Nov. 15, 1881.		1887, . . . . .	662 230
Latta, 301,245. July 1, 1884.		References—Stilwell, 301,934. July 15, 1884.	
Schmetzer, 271,524. Jan. 30, 1883.		Hodge, 91,937. June 29, 1869.	
190 of 1879. English.		Dick, 178,122. May 30, 1876.	
331,330 Rice, David H., Dec. 1, 1885, 657 227		Tyler, 94,927. Sept. 14, 1869.	
No references.		16,406 of 1884. English.	
331,331 Rice, David H., Dec. 1, 1885, 657 227		2,947 of 1882.	
No references.		12,277 of 1884. "	
332,092 Latta, Emmit G., Dec. 8, 1885, 658 227		5,295 of 1879. "	
No references.		Husted, 86,339. Jan 26, 1869.	
333,592 Bock, Anton H., Jan. 5, 1886, 658 228		373,028 Randolph, Frank D., Nov. 8, 1887, 662 230	
References—Godfrey, 156,153. Oct. 20, 1874.		No references.	
Godfrey, 213,310. March 18, 1879.		379,276 Jeffery, Thomas B., March 13,	
337,271 Latta, Emmit G., March 2, 1886, 658 228		1888, . . . . .	662 230
No references.		References—Latta, 322,733. July 21, 1885.	
340,109 Gibbons, Francis J., April 20,		10,840 of 1884. English.	
1886, . . . . .	658 228	15,809 of 1884. "	
References—Davies, 296,936. April 15 1884.		379,812 Renouf, Philipp L. C. F., and	
Gibson, 10,891 of 1884. English.		Boothroyd, Isaac W., March 20,	
345,465 Waite, James N., July 13, 1886, 659 228		1888, . . . . .	663 231
No references.		References—5,295 of 1879. English.	
358,960 Copeland, James S., March 8,		911 of 1881. "	
1887, . . . . .	659 229	2,947 of 1882. "	
No references.		3,377 of 1882. "	
Interference with application of Thomas B. Jeffery. Decision favorable to Copeland.		5,397 of 1882. "	
359,608 Jeffery, Thomas B., March 22,		5,882 of 1882. "	
1887, . . . . .	659 229	12,277 of 1884. "	
References—Santley, 285,685. Sept. 25, 1883.		379,907 Pope, Harry M., March 20, 1888, 663 231	
Latta, 328,693. Oct. 20, 1885.		References—14,194 of 1885. English.	
Nye, 321,910. July 7, 1885.		3,811 of 1885. "	
Knous & Wallace, 312,732. Feb. 24, 1885.		2,133 of 1886. "	
Latta, 332,092. Dec. 8, 1885.		533 of 1881. "	
359,863 Harrington, John, March 22,		4,917 of 1881. "	
1887, . . . . .	660 229	385,136 Redman, Thomas, June 26, 1888, 664 231	
References—3,688 of 1884. English.		References—Oliver, 97,653. Dec. 7, 1869.	
363,011 Snyder, Francis, May 17, 1887, 660 229		Wiggins, 358,187. Feb. 22, 1887.	
References—Haldeman, 265,062. Sept. 26, 1882.		Martin, 369,540. Sept. 6, 1887.	
Brown, 257,651. May 9, 1882.		1,213 of 1885. English.	
364,335 Burdess, Adam, June 7, 1887, 660 229		386,097 Warwick, George T., July 10,	
No reference.		1888, . . . . .	664 231
364,632 Copeland, James S., June 14, 1887, 660 229		References—Harrington, 359,803. March 22, 1887.	
No references.		Redman, 356,600. Jan. 25, 1887.	
366,045 Trigwell, James R., July 5, 1887, 661 229		Smallman, 366,638. July 12, 1887.	
No references.		Pressey, 234,722. Nov. 23, 1880.	
366,287 Yost, Joseph L., and McCune, Joseph B., July 12, 1887, . . . . .	661 229	387,700 Thresher, Harry, Aug. 14, 1888, 665 231	
No references.		References—5,295 of 1879. English.	
366,287 Yost, Joseph L., and McCune, Joseph B., July 12, 1887, . . . . .	661 229	2,947 of 1882. "	
No references.		5,882 of 1882. "	
392,889 Sponsel, Charles W., Nov. 13,		Trigwell, 12,226 of 1885. English.	
1888, . . . . .		1,588 of 1885. "	
References—Latta, 280,633. July 3, 1883.		388,047 Johnson, Iver, and Hanson, Olaus,	
Latta, 324,568. Aug. 18, 1885.		Aug. 21, 1888, . . . . .	665 232
Randolph, 373,028. Nov. 8, 1887.		References—562 of 1882. English.	

P. C.	P. C.
393,387 Norton, Malcolm A., Nov. 27, 1888, . . . . . 665 232	445,618 Zimer, Frederick W., Feb. 3, 1891, 671 235 References—8,462 of 1888. English. Goodsell, 384,150. June 5, 1888.
No references.	446,181 Brown, Seth A., Feb. 10, 1891, 671 236 References—Johnston, 314,335. March 24, 1885.
398,533 Overman, Albert H., Feb. 26, 1889, . . . . . 666 232	447,341 Moore, Van Zant M., March 3, 1891, . . . . . 672 236 References—Keating, 426,670. April 29, 1890. 13,921 of 1887. English. 46,419. German.
No references.	447,382 Thompson, William E., March 3, 1891, . . . . . 672 236 No references.
400,727 Baudreau, Leon, April 2, 1889, 666 232	447,542 Holmes, John A., March 3, 1891, 672 236 No references.
No references.	447,933 Bolte, Frank H., March 10, 1891, 672 237 References—3,688 of 1884. English. 3,091 of 1886. Latta, 396,164. Jan. 15, 1889.
405,363 Kitto, William H., June 18, 1889, 667 233	8,112 of 1887. English. Harrington, 359,863. March 22, 1887. Jeffery, 395,147. Dec. 25, 1888.
References—Jannus, 331,191. Nov. 24, 1885. Latta, 391,253. Oct. 16, 1888.	448,580 Hurrell, William E., March 17, 1891, . . . . . 673 237 References—16,064 of 1886. English. 17,598. German. 37,804 of 1886. German.
408,902 Spaulding, Oliver L. Jr., Aug. 13, 1889, . . . . . 667 233	448,655 Jeffery, Thomas B., March 24, 1891, . . . . . 673 237 References—King, 358,204. Feb. 22, 1887. Work, 314,160. May 17, 1885. Latta, 325,420. Sept. 1, 1885. 16,723 of 1887. English. 5,295 of 1879. Mantor, 399,800. Sept. 13, 1887.
414,505 Featherstone, Alfred, Nov. 5, 1889, 667 233	448,701 Watkins, Charles F., March 24, 1891, . . . . . 673 237 References—8,112 of 1887. English. 9,110 of 1888. Watkins, 417,655. Dec. 17, 1889. Toquet, 425,837. April 15, 1890.
No references.	448,750 Kenfield, William W., March 24, 1891, . . . . . 673 238 References—Keating, 426,670. April 29, 1890. 12,582 of 1887. English. 16,115 of 1887. "
417,655 Watkins, Charles F., Dec. 17, 1889, 668 233	449,220 Jeffery, Thomas B., March 31, 1891, . . . . . 674 238 References—Warwick, 412,216. Oct. 1, 1889. "The Wheel," p. 49 of March 7, 1890. Smith, 391,490. Oct. 23, 1888. Leeper, 420,578. Feb. 4, 1890. Warwick, 434,615. Aug. 19, 1890.
No references.	449,383 Rathbun, John O., March 31, 1891, . . . . . 674 238 References—18,579 of 1888. English.
420,722 Hodgman, Frank S., Feb. 4, 1890, 668 233	450,907 Blakely, William, April 21, 1891, 674 238 References—Jeffery, 360,218. July 12, 1887.
No references.	456,604 Thompson, Arthur N., July 28, 1891, . . . . . 674 238 References—Norton, 393,387. Nov. 27, 1888. Harrington, 359,863. March 27, 1887. Goodrich, 425,770. April 15, 1890. Withers, 428,737. May 27, 1890. Newhouse, 420,826. Feb. 4, 1890. Clegg, 389,200. Sept. 11, 1888. Harrington et al., 3,001 of 1886. English. Bolte, 443,815. Dec. 30, 1890. 3,688 of 1884. English.
425,052 Samuels, Asser J., April 8, 1890, 668 234	
References—533 of 1881. English.	
433,760 Barr, Henry G., Aug. 5, 1890, 668 234	
References—Williams, 122,506. Jan. 2, 1872. Raddin, 48,207. June 13, 1865. Golding, 400,204. March 26, 1889.	
441,417 Jeffery, Thomas B., Nov. 25, 1890, 669 234	
References—Norton, 393,387. Nov. 27, 1888. Watkins, 417,655. Dec. 17, 1889. 16,064 of 1886. English. 8,112 of 1887. 12,899 of 1887. " Latta, 323,695. Aug. 4, 1885.	
441,728 Watts, Samuel, Dec. 2, 1890, 669 234	
References—Latta, 325,420. Sept. 1, 1885. 4,687 of 1877. English. 190 of 1879. " 5,882 of 1882. " 14,495 of 1884. " Forsman, 270,214. Jan. 9, 1883. 1,165 of 1880. English. 1,227 of 1880. " Garrood, 295,161. March 18, 1884. Starley, 351,001. Oct. 19, 1886. 369 of 1879. English. Scott, 340,254. April 20, 1886. 2,947 of 1882. English. 3,377 of 1882. " Latta, 322,113. July 14, 1885. 668 of 1881. English. 710 of 1887. " 7,410 of 1887. "	
442,387 Overman, Albert H., Dec. 9, 1890, . . . . . 669 235	
References—Hanson & Fyrberg, 406,081. July 9, 1889.	
443,266 Bell, Horace, Dec. 23, 1890, . . . . . 669 235	
References—12,586 of 1886. English. 13,782 of 1886. "	
443,815 Bolte, Frank H., Dec. 30, 1890, 670 235	
No references.	
445,452 Murray, William, Jan. 27, 1891, 671 235	
References—Randall, 131,782. Oct. 1, 1872. Gregory, 361,937. April 26, 1887.	
445,574 Phillips, Walter, Feb. 3, 1891, . . . . . 671 235	
References—5,940 of 1887. English. 17,881 of 1887. "	

	P.	C.	P.	C.
461,001 Thompson, William E., Oct. 13, 1891, . . . . .	675	238	446,280 Blakely, William, Feb. 10, 1891, 681	225
References—Thompson, 447,382. March 3, 1891.			References—Jeffery, 355,321. Jan. 4, 1887.	
461,696 Winton, Alexander, Oct. 20, 1891, 675	239		Kibb, 393,837. Dec. 4, 1888.	
References—Boite, 443,815. Dec. 30, 1890.			Miller & Bancroft, 3,377. Dec. 15, 1843.	
3,688 of 1884. English.			La Mothe, 44,434. Sept. 27, 1864.	
463,329 Cottle, Luther M., Nov. 17, 1891, 675	239		Harrison, 381,547. April 24, 1888.	
References—Watts, 441,728. Dec. 2, 1890.			Roedel, 386,896. July, 31, 1888.	
King, 358,204. Feb. 22, 1887.				
Latta, 440,897. Nov. 18, 1890.				
463,390 Overman, Albert H., Nov. 17, 1891, . . . . .	675	239		
References—9,045 of 1885. English.			Pedals.	
3,811 of 1885. "				
4,906 of 1885. "			235,551 Moran, Thomas W., Dec. 14, 1880, 681	279
14,194 of 1885. "			References—Laubach, 86,235. Jan. 26, 1869.	
2,131 of 1886. "			241,361 Hillman, William, May 10, 1881, 681	279
335 of 1887. "			References—Gardiner, 31,881. April 2, 1861.	
Interference with application of Horace Bell. Decision favorable to Overman.			Hughes, 227,632. May 18, 1880.	
463,825 Boudreau, Leon, Nov. 24, 1891, 676	239		4,255 of 1876. English.	
No references.			2,893 of 1875. "	
Interference with application of Horace Bell. Decision favorable to Boudreau.			3,875 of 1876. "	
464,300 Hadley, Charles F., Dec. 1, 1891, 676	239		4,702 of 1877. "	
No references.			Wilkes & Port, 185,711. Dec. 26, 1876.	
Interference with application of Horace Bell. Decision favorable to Hadley.				
			243,346 Price, John B., June 21, 1881, . . . . .	682
			References—Weaver, 177,181. May 9, 1876.	
			Wilson, 87,609. March 9, 1869.	
			66 of 1876. English.	
			260,114 Murray, Joseph S., June 27, 1882, 682	279
			No references.	
			281,889 Knous, John, July 24, 1883, . . . . .	683
			References—1,160 of 1880. English.	
			292,351 Philbrick, Andrew J., Jan. 22,	
			1884, . . . . .	683
			References—Murray, 260,114. June 27, 1882.	
			292,545 Davis, William H., Jan. 29, 1884, 683	280
			References—Lowden, 233,682. Oct. 26, 1880.	
			292,908 Hadley, Charles F., and Over-	
			man, Albert H., Feb. 5, 1884, . . . . .	683
			References—Heron, 242,643. Jan. 7, 1881.	
			4,829 of 1880. English.	
			5,082 of 1880. "	
			Jeffery, 259,313. June 13, 1882.	
			5,410 of 1880. English.	
			4,829 of 1880. "	
			4,873 of 1880. "	
			3,715 of 1880. "	
			618 of 1881. "	
			1,607 of 1880. "	
			1,34 of 1880. "	
			293,581 Kressly, Wilson, Feb. 12, 1884, 684	280
			References—Lallement, 59,915. Nov. 22, 1866.	
			298,079 Grendron, Peter, May 6, 1884, 684	280
			No references.	
			313,323 Hadley, Charles F., March 3, 1885, 684	280
			References—Pickering, 88,507. March 30, 1869.	
			318,149 Wallace, Albert E., May 19, 1885, 684	281
			No references.	
			323,162 Latta, Emmit G., July 28, 1885, 685	281
			References—1,149 of 1878. English.	
			2,047 of 1882. "	
			1,793 of 1882. "	
			Osgood, 59,445. Nov. 6, 1866.	
			Wallace, 280,421. July 3, 1883.	
			Price, 243,346. June 21, 1881.	
			796 of 1883. English.	
			Barrows & Cummings, 286,762. Oct. 16,	
			1883.	
			324,536 Clemson, William, Aug. 18, 1885, 685	281
			References—1,563 of 1881. English.	
			327,786 Gates, Charles H., Oct. 6, 1885, 685	281
			No references.	

P. C.	P. C.
329,851 Overman, Albert H., Nov. 3, 1885, 686 281 References—Laubach, 86,235. Jan. 26, 1869. Crane, 258,559. May 30, 1882. 5,285 of 1880. English. 4,892 of 1883. " Odell, 213,129. March 11, 1879.	425,697 Rankin, William G., April 15, 1890, . . . . . 690 284 References—15,982 of 1887. English.
336,277 Wood, John, Jr., and Phillbrick. Andrew J., Feb. 16, 1886, . . . . . 686 282 References—Phillbrick, 292,351. Jan. 22, 1884.	428,919 Latta, Adrian C., May 27, 1890, . . . . . 690 284 References—Knous, 371,266. Oct. 11, 1887.
341,946 Richardson, Edwin A., May 18, 1886, . . . . . 686 282 References—Price, 243,346. June 21, 1881. Wallace, 318,149. May 9, 1885.	432,126 Duryea, Charles E., July 15, 1890, 691, 285 References—Wood & Phillbrick, 336,277. Feb. 16, 1886. Latta, 323,162. July 28, 1885. Strickland, 347,977. Aug. 24, 1886.
347,977 Strickland, Thomas J., Aug. 24, 1886, . . . . . 687 282 References—Laubach, 86,235. Jan. 26, 1869.	439,779 Hoyt, Montraville, Nov. 4, 1890, 691 285 References—Laubach, 86,235. Jan. 26, 1869. Pickering, 88,507. March 30, 1869. Latta, 323,162. July 28, 1885. Redlinger, 431,529. July 1, 1890.
351,880 Merrill, Nelson, Nov. 2, 1886, . . . . . 687 282 No references.	447,145 Cushman, George W., Feb. 24, 1891, . . . . . 691 285 References—Hadley, 313,323. March 3, 1885. Merrill, 351,880. Nov. 2, 1886.
359,609 Jeffery, Thomas B., March 22, 1887, . . . . . 687 282 References—Latta, 327,399. Sept. 29, 1885. 10,795 of 1884. English. Hadley, 331,295. Dec. 1, 1885. Jeffery, 335,590. Feb. 9, 1886. Latta, 328,235. Oct. 13, 1885.	447,395 Worth, William O., March 3, 1891, 691 285 References—Haynes, 402,926. May 7, 1889. Moran, 235,551. Dec. 14, 1880. Hadley, 313,323. March 3, 1885. Hillman, 241,361. May 10, 1881.
366,279 Torkelson, Reinhard T., July 12, 1887, . . . . . 687 282 No references.	458,608 Wheeler, William, Sept. 1, 1891, 692 285 References—4,399 of 1882. English. Kressly, 293,581. Feb. 12, 1884.
383,131 Jeffery, Thomas B., May 22, 1888, 688 283 References—Jeffery, 359,609. March 22, 1887. Martin, 339,446. April 6, 1886. Wood & Phillbrick, 336,277. Feb. 16, 1886. Wallace, 318,149. May 19, 1885. 2,786 of 1880. English. 871 of 1881. " Latta, 323,462. July 28, 1885. 796 of 1883. English.	Handles.
385,074 Smith, William E., June 26, 1888, 688 283 References—Richardson, 341,946. May 18, 1886.	91,937 Hodge, Lyman F., June 29, 1869, 692 265 References—Hill, W. S., 88,872. April 13, 1869.
388,048 Johnson, Iver, and Fryberg, Andrew, Aug. 21, 1888, . . . . . 688 283 References—Lellement, (R.) 7,972. Nov. 27, 1877. Burris, 271,571. Jan. 30, 1883. 1,793 of 1882. English. Martin, 124,500. March 12, 1872.	245,542 Moran, Thomas W., Aug. 9, 1881, 692 265 References—Tyler, 224,251. Feb. 3, 1880.
388,949 Carter, Hector M., Sept 4, 1888, 689 283 References—Wilbur, 301,415. July 1, 1884.	264,798 Tyler, Abel D., Sept. 19, 1882, 693 265 References—Flora, 88,560. April 6, 1869. Donaldson, 171,106. Dec. 14, 1875. Tyler, 224,251. Feb. 3, 1880. Forsyth, 52,153. Jan. 23, 1866. Whitney, 110,098. Dec. 13, 1870. Robbins, 58,027. Sept. 11, 1866.
391,212 Torkelson, Reinhard T., Oct. 16, 1888, . . . . . 689 284 References—Price, 243,346. June 21, 1881.	277,870 Benham, William P., May 22, 1883, 693 265 No references.
396,673 Tufts, Elmer E., Jan. 22, 1889, . . . . . 689 284 References—Price, 243,346. June 21, 1881.	286,835 Lewis, Joseph, Oct. 16, 1883, . . . . . 693 266 No references.
397,188 Jeffery, Thomas B., Feb. 5, 1889, 689 284 References—1,793 of 1882. English. McKeogh, 345,248. July 28, 1886. Latta, 323,162. July 28, 1885. Overman, 329,851. Nov. 3, 1885.	291,323 Foote, George D., Jan. 1, 1884, 694 266 No references.
402,926 Haynes, Gideon, Jr., May 7, 1889, 690 284 References—Overman, 329,851. Nov. 3, 1885. Latta, 323,162. July 28, 1885. Strickland, 347,977. Aug. 24, 1886. Warwick, 362,407. May 3, 1887. Laubach, 86,235. Jan. 26, 1869. 13,986 of 1886. English.	296,973 Kelsey, George S., April 15, 1884, 694 266 References—Gray, 267,517. Nov. 14, 1882.
421,557 Crawford, Robert S., Feb. 18, 1890, 690 284 No references.	302,979 Brown, Charles M., Aug. 5, 1884, 694 266 References—Lewis, 286,835. Oct. 16, 1883. Rennison, 244,931. July 26, 1881.
	306,280 Powell, Abram G., Oct. 7, 1884, 695 266 References—Rennison, 244,931. July 26, 1881.
	310,776 Benham, William P., Jan. 13, 1885, 695 266 No references.
	Interference with application of George Illston. Decision favorable to Illston.
	313,234 Powers, Frank B., March 3, 1885, 695 266 References—Irwin, 85,527. Jan. 5, 1869.
	322,113 Latta, Emmet G., and Adrian C., July 14, 1885, . . . . . 695 267 References—Phillips, 5,307 of 1882. English. Swindley, 608 of 1881. " Illston, 245,071. Aug. 2, 1881.

P. C.	P. C.
Powers, 313,234. March 3, 1885. Jeffery, 259,313. June 13, 1882.	367,368 Copeland, James S., Aug. 2, 1887, 700 270 No references.
322,543 Knott, John, July 21, 1885, 696 267 References—Thayer, 201,962. April 2, 1878. Interference with application of Emmitt G. Latta. Decision favorable to Latta.	369,541 Marlin, John M., Sept. 6, 1887, . 700 270 No references.
325,014 Rodes, Robert, Jr., Aug. 25, 1885, 696 267 References—Lewis, 286,835 Oct. 16, 1883.	371,234 Veeder, Curtis H., Oct. 11, 1887, 701 270 References—Jeffery, 259,313. June 13, 1882. Hall, 310,670. Jan. 13, 1885. 1,680 of 1882. English.
326,752 Latta, Emmitt G., Sept. 22, 1885, 696 267 References—4,606 of 1879. English. Salamon, 236,372. Jan. 4, 1881. Lorenz, 298,217. May 6, 1884. 562 of 1882. English. Jeffery, 312,473. Feb. 17, 1885.	371,432 Copeland, James S., Oct. 11, 1887, 701 271 References—Humber, 305,698. Sept. 23, 1884. Phillips, 350,080. Sept. 28, 1886. Humber, 352,090. Nov. 2, 1886. 10,885 of 1885. English. 12,491 of 1885. "
331,295 Hadley, Charles F., Dec. 1, 1885, 696 267 References—Rennyson, 244,931. July 26, 1881. Salamon, 236,372. Jan. 4, 1881. Powers, 313,234. March 3, 1885. Powell, 306,280. Oct. 7, 1884. 1,889 of 1869. English.	379,224 Johnson, Iver, March 13, 1888, . 702 271 References—Pratt, 318,500. May 26, 1885. Latta, 332,092. Dec. 8, 1885.
332,263 Laughlin, Julian, Dec. 15, 1885, 697 268 References—Lewis, 286,835. Oct. 16, 1883. Interference with application of Thomas H. Scott. Decision favorable to Laughlin.	379,228 Johnson, Iver, and Torkelson, Reinhard T., March 13, 1888, . . . . . 702 271 References—Illston, 245,071. Aug. 2, 1881. Pratt, 318,500. May 26, 1885. 2,041 of 1884. English.
333,128 Jeffery, Thomas B., Dec. 29, 1885, 697 268 References—4,606 of 1879. English. Elting, 286,123. Oct. 2, 1883. Jeffery, 312,473. Feb. 17, 1885. Wheeler, 199,458. May 8, 1877.	379,258 Torkelson, Reinhard T., March 13, 1888, . . . . . 702 271 References—Benham, 310,776. Jan. 13, 1885. Latta, 326,752. Sept. 22, 1885. Illston, 4,606 of 1879. English. Harrison, 4,492 of 1881. "
347,054 Morse, Frederick H., Aug. 10, 1886, . . . . . 697 268 References—Moran, 245,542. Aug. 9, 1881. Latta, 326,752. Sept. 22, 1885. Latta, 322,113. July 14, 1885. Powers, 313,234. March 3, 1885. Benham, 277,870. May 22, 1883.	379,290 Schroeter, Waldemar, March 13, 1888, . . . . . 702 271 No references.
353,504 Rodes, Robert, Jr., Nov. 30, 1886, 697 268 References—Lewis, 286,835. Oct. 16, 1883. Lorenz, 298,217. May 6, 1884.	379,955 Hedger, Harry D., March 27, 1888, . . . . . 703 271 References—1,272 of 1880. English. 796 of 1883. " 184 of 1884. " Otto, 252,504. Jan. 17, 1882. Kelsey, 296,973. April 15, 1884. Bedford, 197,317. Nov. 20, 1877.
358,533 Bierau, Theodor, March 1, 1887, 698 268 References—Powell, 306,280. Oct. 7, 1884. Lewis, 286,835. Oct. 16, 1883. 7,928 of 1884. English. 6,245 of 1885. "	380,886 Hadley, Charles F., April 10, 1888, . . . . . 703 272 References—Hadley, 331,295. Dec. 1, 1885. Warwick, 322,221. July 14, 1885. Latta, 328,693. Oct. 20, 1885. 4,156 of 1885. English. 16,406 of 1884. " Harwood, 297,991. May 6, 1884. Hillman, 241,361. May 10, 1881. 5,817 of 1885. English. Hart, 339,765. April 13, 1886.
358,590 Bierau, Theodor, March 1, 1887, 698 268 No references.	383,396 Illston, George, May 22, 1888, . 704 272 References—Benham, 310,776. Jan. 13, 1885. Marble, 171,623. Dec. 28, 1875. Marble, 185,401. Dec. 19, 1876. Will & Uebele, 189,588. April 17, 1877. Interference with application of Wm. P. Benham. Decision favorable to Illston.
362,763 McCune, Joseph B., May 10, 1887, 698 269 References—4,606 of 1879. English. 562 of 1882. "	385,715 Jeffery, Thomas B., July 10, 1888, 704 272 No references.
363,354 Bannmihr, Caesar R., May 24, 1887, 699 269 No references.	390,733 Wheelock, Luke, Oct. 9, 1888, 705 272 References—Foot, 291,323. Jan. 1, 1884. Rennyson, 244,931. July 26, 1881.
366,046 Trigwell, James R., July 5, 1887, 699 269 References—Laughlin, 332,263. Dec. 15, 1885. Roades, 325,014. Aug. 25, 1885.	390,952 Drake, Fred M., Oct. 9, 1888, . 705 272 References—Rennyson, 244,931. July 26, 1881. Lewis, 286,835. Oct. 16, 1883. Powell, 306,280. Oct. 7, 1884. Bierau, 358,533. March 1, 1887.
366,218 Jeffery, Thomas B., July 12, 1887, 699 269 References—Rucker, 322,974. July 28, 1885. 11,239 of 1884. English. Goddard, 202,165. April 9, 1878. Page & Shroder, 171,739. Jan. 4, 1876.	
366,775 Jeffery, Thomas B., July 19, 1887, 699 270 No references.	
367,115 Palmer, Charles A. E. T., July 26, 1887, . . . . . 700 270 References—6,038 of 1884. English. 2,641 of 1884. " 4,606 of 1879. " Foot, 291,323. Jan. 1, 1884. Harrison, 252,939. Jan. 31, 1882. 3,485 of 1875. English.	

P.	C.	P.	C.
391,210 Torkelson, Reinhard, T. Oct. 16, 1888,	705 273	Schroeter, 379,290. March 13, 1888. Haynes, 392,557. Nov. 6, 1888.	
References—Latta, 324,568. Aug. 18, 1885. Hall, 286,131. Oct. 2, 1883.			
391,253 Latta, Emmitt G., Oct. 16, 1888, 705 273		440,312 Kendall, George D. and William F., Nov. 11, 1890, . . . . . 711 276	
References—Marks & Iverson, 249,194. Nov. 8, 1881. Laskey & Aynold, 212,141. May 31, 1881. Duryea, 304,231. June 7, 1887. Thompson & Spence, 293,377. Feb. 12, 1884. Martin, 339,446. April 6, 1886. Jeffery, 366,775. July 19, 1887. 810 of 1887. English. Latta, 339,436. April 6, 1886. 176 of 1884. English. Linley & Biggs, 354,642. Dec. 21, 1886. 1,272 of 1886. English.		References—Powers, 313,234. March 3, 1885. 17,881 of 1887. English.	
391,900 Latta, Emmitt G., Oct. 30, 1888, 706 273		442,532 McGlinehey, Charles E., Dec. 9, 1890, . . . . . 711 276	
References—Pratt, 318,500. May 26, 1885. Latta, 321,508. July 7, 1885.		References—Caling, 402,143. April 30, 1889.	
392,557 Haynes, Gideon, Jr., Nov. 6, 1888, 707 274		445,118 Krieger, Julius, and Dallmer, Albert, Jan. 20, 1891, . . . . . 712 276	
References—Owen, 323,066. July 28, 1885. Rodets, 325,014. Aug. 25, 1885. 1,115 of 1887. English. 9,165 of 1886. " 4,342 of 1887. "		References—Hull, 309,261. June 10, 1884. 5,356 of 1884. English. 8,795 of 1884. " 14,765 of 1887. "	
400,075 Goulden, William, March 26, 1889, . . . . . 707 274		445,914 Waterson, Henry, Feb. 3, 1891, . . . . . 712 276	
References—Burdess, 364,335. June 7, 1887. 6,355 of 1886. English. 270 of 1885.		References—Tyler, 264,798. Sept. 19, 1882. Jeffery, 385,715. July 10, 1888.	
402,143 Colling, Charles J., April 30, 1889, 707 274		450,906 Blakely, William, April 21, 1891, 712 277	
References—Tingwell, 366,046. July 5, 1887. Copeland, 367,368. Aug. 2, 1887.		References—Sammis & Hayes, 189,388. April 10, 1877.	
414,048 Hunter, D. Edgar, Oct. 29, 1889, 707 274		452,577 Latta, Emmit G., May 19, 1891, 712 277	
References—Gaylor, 361,280. April 19, 1887. Lorenz, 298,217. May 6, 1884. 13,782 of 1886. English. 12,586 of 1886. "		References—Trigwell, 366,046. July 5, 1887. 848 of 1882. English.	
420,416 Readio, Arthur, J. E., Jan. 28, 1890, . . . . . 708 275			
References—1,962 of 1885. English. 8,438 of 1885. " 8,532 of 1885. "			
421,277 Horton, James M., and Levison, Michael M., Feb. 11, 1890, . . . . . 708 275			
References—Latta, 391,253. Oct. 16, 1888.			
421,936 Horton, James M., and Levison, Michael M., Feb. 25, 1890, . . . . . 709 275			
No references.			
423,249 Hendee, George M., March 11, 1890, . . . . . 709 275			
References—5,940 of 1887. English. 481 of 1887. "			
425,779 Goodrich, Harry C., April 15, 1890, . . . . . 709 275			
References—Copeland, 367,368. Aug. 2, 1887. 5,940 of 1887. English. 918 of 1888.			
429,416 Brown, Harry H., June 3, 1890, 710 275			
No references.			
436,978 Hoyt, Montraville, Sept. 23, 1890, 710 275			
References—Hewitt & Money, 136,131. Feb. 8, 1873. Main, 141,868. Aug. 19, 1873. Brown, 26,066. Nov. 8, 1859. Jeffery, 385,751. July 10, 1888.		277,974 Anthony, Wendell P., May 22, 1883, . . . . . 714 240	
439,129 Durkee, George B., Oct. 28, 1890, 710 275		References—Yount, 91,929. Jan. 29, 1869. Stewart, 252,537. Jan. 17, 1882. Heilman, 225,827. March 23, 1880. Goodwin, 72,842. Dec. 31, 1867.	
References—Lewis, 286,835. Oct. 16, 1883. Laughlin, 332,263. Dec. 15, 1885.			

P.	C.	P.	C.
284,782 Wallace, Albert E., Sept. 11, 1883, 715	240	348,691 Rice, David H., Sept. 7, 1886, 724	244
References—5,082 of 1880. English.		References—5,171 of 1883. English.	
5,410 of 1880. "		353,793 Lloyd, Walter J., and Priest, William, Dec. 7, 1886, . . . . .	724 245
134 of 1880. "		References—Shakespear, 325,019. Oct. 25, 1885.	
Verner, 246,988. Sept. 13, 1881.		Wallace, 312,411. Feb. 17, 1885.	
299,883 Wallace, Albert E., June 3, 1884, 715	241	Whitehead, 194,980. Sept. 11, 1877.	
No references.		10,891 of 1884. English.	
300,516 Settle, Edward R., June 17, 1884, 716	241	354,777 Ferris, George D., Dec. 21, 1886, 725	245
No references.		References—Rice, 236,259. Jan. 4, 1881.	
303,513 Harvey, Charles, and Paddock, William, Aug. 12, 1884, . . . . .	716 241	Remyson, 293,081. Feb. 5, 1884.	
No references.		355,375 Brown, Frederic W., Jan. 4, 1887, 725	245
307,133 Millward, Thomas, and Leni, Charles, Oct. 28, 1884, . . . . .	716 241	References—3,730 of 1882. English.	
No references.		697 of 1884. "	
310,540 Pratt, Charles E., and Wallace, Albert E., Jan. 6, 1885, . . . . .	716 241	4,414 of 1884. "	
No references.		10,825 of 1884. "	
312,407 Veeder, Curtis H. and John L., Feb. 17, 1885, . . . . .	717 241	4,763 of 1880. "	
No references.		2,236 of 1870. "	
313,863 Hadley, Charles F., March 17, 1885, . . . . .	717 242	355,672 Wuterich, William F., Jan. 4, 1887, . . . . .	725 245
References—Wallace, 284,782. Sept. 11, 1883.		References—Latta, 294,640. March 4, 1884.	
Anthony, 277,974. May 22, 1883.		356,600 Redman, Edward, Jan. 25, 1887, 725 246	
314,633 Wallace, Albert E., March 31, 1885, 718	242	References—1,680 of 1882. English.	
References—Quatremaine, 287,060. Nov. 6, 1883.		3,596 of 1885. "	
Hiester, 285,130. Sept. 18, 1883.		361,310 Monnin, Alpheus C., and Filliez, Peter, April 19, 1887, . . . . .	726 246
Brown, 294,753. March 11, 1884.		References—Curtin, 255,775. April 4, 1882.	
314,849 Jones, Harry H., March 31, 1885, 718	242	Kathmann & Johnson, 90,687. June 1, 1869.	
No references.		366,288 Yost, Joseph L., and McCune Joseph B., July 12, 1887, . . . . .	726 246
315,304 Latta, Emmet G., April 7, 1885, 718	242	References—No references.	
References—Hillman, 311,320. Jan. 27, 1885.		366,638 Smallman, James W., July 12, 1887, . . . . .	726 246
316,061 Rice, David H., April 21, 1885, 719	243	References—Foote, 291,323. Jan. 1, 1884.	
No references.		367,293 Hanser, Otto, July 26, 1887, . . . . .	726 246
319,040 Ugland, Andrew A., June 2, 1885, 719	243	References—No references.	
No references.		373,570 Singer, George, and Lea, Richard H., Nov. 22, 1887, . . . . .	727 246
331,644 Latta, Adrian C., Dec. 1, 1885, 720	243	References—No references.	
References—Landis, 252,044. Jan. 10, 1882.		373,850 Pope, Harry M., Nov. 29, 1887, . . . . .	727 246
Landis, 266,698. Oct. 31, 1882.		References—Lloyd & Priest, 353,793. Dec. 7, 1886.	
333,531 Marlin, John M., Jan. 5, 1886, 720	243	Wallace, 314,633. March 31, 1885.	
No references.		Wallace, 312,411. Feb. 17, 1885.	
336,588 Rice, David H., Feb. 23, 1886, 721	243	375,714 Pope, Harry M., Dec. 27, 1887, 727	247
No references.		References—Wallace, 314,633. March 31, 1885.	
340,254 Scott, Robert P., April 20, 1886, 721	244	Wallace, 312,411. Feb. 17, 1885.	
References—Richards, 252,624. Jan. 24, 1882.		Shakespear, 325,019. Aug. 25, 1885.	
Dutton, 247,809. Oct. 4, 1881.		11,239 of 1884. English.	
4,121 of 1881. English.		378,957 Hartness, James, March 6, 1888, 728	247
Grant, 320,930. June 30, 1885.		References—Ugland, 319,040. June 2, 1885.	
Adams, 299,711. June 3, 1884.		Rich, 350,994. Oct. 19, 1886.	
4,169 of 1884. English.		Rice, 357,661. Feb. 15, 1887.	
341,237 Healey, John H., May 4, 1886, 722	244	Garrood, 348,276. Aug. 31, 1886.	
References—2,283 of 1884. English.		381,274 Overman, Albert H., April 17, 1888, 728	247
341,389 Prescott, Charles A., May 4, 1886, 722	244	References—5,490 of 1883. English.	
References—Curtin, 255,775. April 4, 1882.		386,168 Spencer, Wilber W., and Horace, July 17, 1888, . . . . .	728 247
Richards, 252,329. Jan. 17, 1882.		References—Richard, 252,329. Jan. 17, 1882.	
348,276 Garrood, John C., Aug. 31, 1886, 723	244	387,166 Jörgensen, Alfred, July 31, 1888, 729	247
References—4,169 of 1884. English.		References—No references.	
Kelly, 321,810. July 7, 1885.		394,067 Forman, Sands, Dec. 4, 1888, 729	247
Kelly, 321,932. July 7, 1885.		References—Beale, 280,558. July 3, 1883.	
Scott, 340,254. April 20, 1886.		1,070 of 1880. English.	
348,680 Marlin, John M., Sept. 7, 1886, 723	244		
References—Rice, 336,588. Feb. 23, 1886.			

P. C.	P. C.
398,228 Carstensen, Larsen F., Feb. 19, 1889, . . . . . 729 247	453,540 Bigelow, Frank R., June 2, 1891, 735 251
References—Kelley, 321,819. July 7, 1885. Garrold, 348,276. Aug. 31, 1886. Kelley, 321,932. July 7, 1885. Rice, 342,878. June 1, 1886. Rice, 388,446. Aug. 28, 1888.	References—Emerson, 99,546. Feb. 8, 1870. Davis, 410,751. Sept. 10, 1889. Latta, 294,641. May 4, 1884.
399,003 Bentley, Charles E., March 5, 1889, 730 248	456,833 Morse, Preston C., July 28, 1891, 735 251
References—355,672. Jan. 4, 1888. 13,923 of 1886. English.	References—Babcock, 16,625. Feb. 10, 1857. Hafner, 168,481. Oct. 5, 1875. Hafner, 86,533. Feb. 2, 1875.
399,285 Rose, Aaron G., March 12, 1889, 730 248	462,191 Baker, James H., Oct. 27, 1891, 736 251
References—Curtin, 255,775. April 4, 1882. Prescott, 341,389. May 4, 1886. Monnin & Filizie, 361,310. April 19, 1887.	References—Schwertfuerer, 436,673. Sept. 16, 1890. Hambley, 290,576. Dec. 18, 1883. Whiting, 259,316. Nov. 29, 1881. McCune & Yost, 424,994. April 8, 1890. Wood & Burnap, 439,922. Nov. 4, 1890. 3,564 of 1879. English.
401,425 Fitzpatrick, William J., April 16, 1889, . . . . . 731 248	463,703 Murdock, Horace B., Nov. 24, 1891, . . . . . 736 252
References—Jan Graw, 330,123. Nov. 10, 1885. Collicut, 370,450. Sept. 27, 1887.	References—Emerson, 99,546. Feb. 8, 1870. Egg, 444,341. Jan. 6, 1891.
404,490 King, Homer A., June 4, 1889, 731 249	465,998 Pursell, Augustus, Dec. 29, 1891, 737 252
References—Lillibridge, 294,645. March 4, 1884. Overman, 331,901. Nov. 24, 1885. Latta, 376,662. Jan. 17, 1888.	References—Story, Fox & Hill 428,427. May 20, 1890.
406,461 Overman, Albert H., July 9, 1889, 731 249	Supports.
No references.	293,284 Stevens, William X., Feb. 12, 1884, . . . . . 738 259
408,845 McGlinchey, Charles E., Aug. 13, 1889, . . . . . 731 249	References—Wyndham, 106,529. Aug. 16, 1870.
References—Wuterich, 355,672. Jan. 4, 1887. Warner, 283,306. Aug. 14, 1883. Van Anden, 88,238. March 23, 1869. Schroeter, 379,296. March 13, 1888. Yost & McCune, 367,883. Aug. 9, 1887. Evans, 385,258. June 26, 1888.	306,177 Redmond, Edmund, Oct. 7, 1884, 738 259
420,922 Schrader, Frederick, Feb. 4, 1890, 732 249	References—Wyndham, 105,629. Aug. 16, 1870. Stevens, 293,284. Feb. 12, 1884.
References—Schrader, 416,016. Nov. 26, 1889. Owen, 330,346. Nov. 10, 1885.	330,123 Jan Graw, Selden A., Nov. 10, 1885, . . . . . 738 259
421,946 Lloyd, Walter J., and Priest, William, Feb. 25, 1890, . . . . . 732 250	References—2,236 of 1870. English. 4,763 of 1880 “ 1,812 of 1882, “ 2,861 of 1877, “ 113,128 of 1876. French.
References—Smith, 392,973. Nov. 13, 1888. Latta, 387,979. Aug. 4, 1888.	335,297 Morgan, John F., Feb. 2, 1886. 738 260
426,524 Clough, John, and Carter, George, April 29, 1890, . . . . . 733 250	References—2,861 of 1877. English.
References—Harvey & Paddock, 303,513. Aug. 12, 1884. Anthony, 277,975. May 22, 1883. 7,080 of 1884. English.	359,629 Petit, Albert O., March 22, 1887, 739 260
428,881 Braunfeld, Henry E., May 27, 1890, . . . . . 733 250	References—Wyndham, 106,529. Aug. 16, 1870. Jan Graw, 330,123. Nov. 10, 1885. Pressey, 233,640. Oct. 26, 1880. Payne, 88,198. March 23, 1869. Stevens, 293,834. Feb. 12, 1884.
References—Allen, 278,071. May 22, 1883. Kibbe, 402,400. April 30, 1889. Hausen & Ryberg, 406,581. July 9, 1889.	378,496 Conley, Joseph F., Feb. 28, 1888, 739 260
432,381 Dillon, William H., July 15, 1890, 733 250	References—Brusie, 359,126. March 8, 1887. Ehrlich, 327,669. Oct. 6, 1885. 113,128 of 1876. French.
No references.	417,550 Döring, Emil, and Siegert, Friederich A., Dec. 17, 1889, . . . . . 739 260
435,466 Terrort, Charles, Sept. 2, 1890, . . . . . 734 250	References—14,749 of 1888. English.
No references.	418,923 Mortson, George, Jan. 7, 1890, 740 260
437,820 Peck, Frank E., Oct. 7, 1890, . . . . . 734 250	References—Watkins, 410,681. Sept. 10, 1889. 4,676 of 1888. English. 9,420 of 1887. “
References—Norton, 401,295. April 9, 1889.	420,579 Leeper, James L., Feb. 4, 1890, 740 261
444,341 Egg, Gustave A., Jan. 6, 1891, . . . . . 735 251	References—Wyndham, 106,529. Aug. 16, 1870. Morgan, 335,297. Feb. 2, 1886.
References—Emerson, 99,546. Feb. 8, 1870. Davis, 410,751. Sept. 10, 1889. Martin, 339,446. April 6, 1886. Tryon, 329,102. Oct. 27, 1885. 1,213 of 1885. English. 3,688 of 1884. “ 638 of 1881. “	424,864 Döring, Emil, and Siegert, Friederich A., April 1, 1890, . . . . . 740 261
448,952 Foster, Freling C., March 24, 1891, . . . . . 735 251	References—Conley, 378,496. Feb. 28, 1888.
No references.	439,879 King, William H., Nov. 4, 1890, 741 261
	References—Wyndham, 106,529. Aug. 16, 1870. Döring & Siegert, 417,550. Dec. 17, 1889.

P.	C.	P.	C.
Petit, 359,629. March 22, 1887.		445,710 Bowen, Ephraim N., Feb. 3, 1891, 747 265	
Leeper, 420,579. Feb. 4, 1890.		References—Hart, 322,057. July 14, 1885.	
Earle & Strail, 276,011. April 17, 1883.		446,835 Kennedy, John W., Feb. 17, 1891, 747 265	
444,258 Tillinghast, Pardon W., Jan. 6, 1891, . . . . . 741 261		No references.	
References—7,352 of 1888. English.		458,974 Merrill, Anson P., Sept. 1, 1891, 748 265	
447,125 Anck, John M., Feb. 24, 1891, 742 262		References—Wicksteed, 256,936. April 25, 1882.	
References—Jan Graw, 330,123. Nov. 10, 1885.		Hart, 332,057. July 14, 1885.	
Morgan, 335,297. Feb. 2, 1886.		Bowen, 445,710. Feb. 3, 1891.	
Döring & Siegert, 424,864. April 1, 1890.		—	
451,972 Horah, James H., May 12, 1891, 742 262		Cyclometers.	
No reference.		112,116 Branning, David L., Feb. 28, 1871, . . . . . 748 321	
453,094 Taylor, Frederick G., May 26, 1891, 742 262		No references.	
References—Morgan, 335,297. Feb. 2, 1886.		217,550 Richardson, John D., July 15, 1879, . . . . . 748 321	
Döring & Siegert, 424,864. April 1, 1890.		References—Ridout, 32,000. April 9, 1861.	
456,347 Taylor, Frederick G., July 21, 1891, . . . . . 743 262		Elliott, 33,791. March 26, 1861.	
References—King, 439,879. Nov. 4, 1890.		Smith, 201,295. March 12, 1870.	
Petit, 359,629. March 22, 1887.		Bruner, 185,287. Dec. 12, 1876.	
Fry, 292,163. Jan. 22, 1884.		Beers, 1,325. Sept. 14, 1839.	
456,348 Taylor, Frederick G., July 21, 1891, . . . . . 743 262		242,157 Ritchie, Edward S., May 31, 1881, 749 322	
References—Jan Graw, 330,123. Nov. 10, 1885.		References—Stein, 75,313. March 10, 1868.	
456,411 Hathaway, Edgar F., July 21, 1891, . . . . . 743 262		Flad, 78,795. June 9, 1868.	
References—Ehrlich, 327,669. Oct. 6, 1885.		250,483 Barnes, Raymond F., and Hansmann, Max, Dec. 6; 1881, . . . . . 749 322	
Petit, 359,629. March 22, 1887.		References—Walker, 23,329. March 22, 1859.	
14,749 of 1888. English.		Heckert, 185,738. March 27, 1877.	
460,332 Coates, Robert, Sept. 29, 1891, 743 262		Interference with application of John J. Mortan. Decision favorable to Barnes & Hansmann.	
References—Chamberlin, (R.) 5,700. Dec. 23, 1873.		253,481 McDonnell, Patrick E., Feb. 7, 1882, . . . . . 749 322	
Benton, 396,323. Jan. 15, 1889.		References—Jewsbury, 100,769. March 15, 1870.	
461,806 Anderson, John E., Oct. 27, 1891, 744 263		255,004 Morton, John J., March 14, 1882, 750 322	
References—Ehrlich, 327,669. Oct. 6, 1885.		No references.	
Wyndham, 106,529. Aug. 16, 1870.		Interference with application of Barnes & Hansmann. Decision favorable to Barnes & Hansmann.	
Döring & Siegert, 424,864. April 1, 1890.		259,562 Livingston, Henry S., June 13, 1882, . . . . . 750 322	
466,020 McCash, James A., Dec. 29, 1891, 744 263		References—2,531 of 1876. English.	
No references.		1,114 of 1877. " Barnes & Hansmann, 250,483. Dec. 6, 1881.	
Suspenders.		270,737 Butcher, Joseph, Jan. 16, 1883, 751 322	
352,508 Babbitt, Seth W., Nov. 16, 1886, 744 263		References—Barnes & Hansmann, 210,483. Dec. 6, 1881.	
No references.		Morton, 255,004. March 14, 1882.	
371,326 Jeffery, Thomas B., Oct. 11, 1887, 745 263		9,344 of 1842. English.	
No references.		Burton, 213,492. March 25, 1879.	
Stands.		281,468 Dewell, Samuel, July 17, 1883, 751 322	
256,936 Wicksteed, Charles, April 25, 1882, . . . . . 745 263		References—“Tomlinson’s Cyclopedia,” Vol. 2, pages 380-381.	
No references.		Jacobs, 176,137. April 18, 1876.	
292,163 Fry, John W., Jan. 22, 1884, . . . . . 745 264		Asbile, 120,478. Oct. 31, 1871.	
No references.		Rice & Childs, 202,868. April 23, 1878.	
322,057 Hart, Harrie B., July 14, 1885, . . . . . 745 264		290,767 Gillespie, James, Dec. 25, 1883, 752 322	
No references.		References—Perkins, 203,670. April 30, 1878.	
350,243 Gump, Albert W., Oct. 5, 1886, . . . . . 746 264		Whitney, 27,589. March 20, 1860.	
No references.		Beers, 1,325. Sept. 14, 1839.	
350,990 Philbrick, Andrew J., Oct. 19, 1886, . . . . . 746 264		Whitier, 201,901. April 2, 1878.	
References—Hart, 322,057. July 14, 1885.		Seipel & Alois, 111,068. Jan. 17, 1871.	
Wicksteed, 256,936. April 25, 1882.		295,632 Gould, George H., March 25, 1884, 752 323	
369,494 Bailey, Gilbert L., Sept. 6, 1887, 746 264		References—Whitney, 27,589. March 20, 1860.	
References—McClintock, 359,800. March 22, 1887.		Ritchie, 242,157. May 31, 1881.	
418,829 Towle, George C., Jan. 7, 1890, . . . . . 747 264		Wheeler, 143,651. Oct. 14, 1873.	
References—Gump, 350,243. Oct. 5, 1886.			

<i>P. C.</i>	<i>P. C.</i>
299,733 Burns, Robert, June 3, 1884, 752 323 References—Thompson, 11,878. Oct. 31, 1854.	362,883 Dutemple, William R., May 10, 1887, . . . . . 757 325 No references.
320,145 Lamson, Charles H., June 16, 1885, . . . . . 752 323 References—Beers, 1,325. Sept. 14, 1839. Perkins, 203,070. April 18, 1871. Wheeler, 143,651. Oct. 14, 1873.	363,218 Downes, Moses H., May 17, 1887, 757 326 References—Cobb, 250,886. Dec. 13, 1881. Moffet, 27,006. Jan. 31, 1860. Farnsworth, 234,863. Nov. 30, 1880. Barnes & Hansmann, 250,483. Dec. 6, 1881.
321,365 Hutches, Benjamin F., Jr., June 30, 1885, . . . . . 753 323 References—Pyle, 113,794. April 18, 1871. Clarke, 200,259. Feb. 12, 1878.	363,735 Downes, Moses H., May 24, 1887, 758 326 References—Bradley, 95,310. Sept. 28, 1869. Edmonds & Hamblet, 71,740. Nov. 26, 1867. Schuchardt, 318,511. May 26, 1885. Pope & Edison, 103,924. June 7, 1870.
326,396 Brooks, Henry O., Sept. 15, 1885, 754 323 References—Beers, 1,325. Sept. 14, 1839. Gould, 205,632. March 25, 1884. Kitchie, 242,157. May 31, 1881. Barnes & Hansmann, 250,483. Dec. 6, 1881. Richardson, 217,550. July 15, 1879.	363,993 Downes, Moses H., May 31, 1887, 758 326 References—Almy, 303,481. Aug. 12, 1884. Spencer, 69,038. Sept. 17, 1867. Mooney, 47,971. May 30, 1865. Stevens & Drake, 69,504. Oct. 1, 1867. Smith, 242,067. May 24, 1881. Interference with applications of Charles H. Lamson, Joseph Butcher and George H. Gould. Decision favorable to Downes.
339,891 Hoyt, Gabriel P. B., April 13, 1886, . . . . . 754 323 References—Brown's Mechanical Movements, Figs. 62 and 212. Ambler, 230,681. Aug. 10, 1880.	365,043 Brooks, Henry O., June 21, 1887, 758 327 References—Brooks, 326,396. Sept. 15, 1885. Barnes & Hansmann, 250,483. Dec. 6, 1881. Wohnlich, 252,285. Jan. 10, 1882. Livingston, 259,562. June 13, 1882.
345,188 Stiles, George A., July 6, 1886, 754 323 References—Dunlap & Nagill, 196,643. Oct. 30, 1877. Thomas, 170,917. Dec. 7, 1875.	366,447 Beach, Oliver, B., July 12, 1887, 759 327 References—Warner, 110,520. Dec. 27, 1870. Hey, 347,038. Aug. 10, 1886.
348,851 Lakin, James A., and Emerson, Cyrus J., Jr., Sept. 7, 1886, . . . . . 754 323 References—Gillespie, 299,767. Dec. 25, 1883. Morton, 255,004. March 14, 1882. Barnes & Hansmann, 250,483. Dec. 6, 1881.	374,919 Woodward, Charles E. W., Dec. 13, 1887, . . . . . 759 327 References—Downes, 303,218. May 17, 1887. Chambers, 164,424. June 15, 1875. Coffin, 323,498. Aug. 4, 1885.
353,479 Butcher, Joseph, Nov. 30, 1886, 755 324 No references.	396,210 Johnson, George W., Jan. 15, 1889, 760 327 No references.
354,128 Gould, George H., Dec. 14, 1886, 756 324 References—Spencer, 69,038. Sept. 17, 1867. Almy, 303,481. Aug. 12, 1884. Simonds, 174,584. March 7, 1876. Brawer, 20,956. July 27, 1858. Lamson, 320,145. June 16, 1885. Interference with applications of Charles H. Lamson, Joseph Butcher and Moses H. Downes. Decision unfavorable to Gould.	442,388 Paoli, John, Dec. 9, 1890, . . . . . 760 328 No references.
356,822 Butcher, Joseph, Feb. 1, 1887, . . . . . 756 324 References—Almy, 303,481. Aug. 12, 1884. Spencer, 69,038. Sept. 17, 1867. Ambler, 230,681. Aug. 10, 1880. Turner, Nov. 19, 1833. Stevens & Drake, 69,504. Oct. 1, 1867. Butcher, 270,737. Jan. 16, 1883. Interference with applications of Charles H. Lamson, George H. Gould and Moses H. Downes. Decision unfavorable to Butcher.	447,540 DeWolfe, Edward R., March 3, 1891, . . . . . 761 328 No references.
357,758 Butcher, Joseph, Feb. 15, 1887, . . . . . 756 324 References—Gillespie, 200,767. Dec. 25, 1883. Prescott & Judson, 62,152. Feb. 19, 1867. Whitney, 27,589. March 20, 1860. Barnes & Hansmann, 250,483. Dec. 6, 1881. Le Roy, (R.) 9,842. Aug. 16, 1881. Peters, 35,976. July 22, 1862. Sheldon, 171,874. Jan. 4, 1876. Smalley, 200,084. Oct. 15, 1878. Sweeney, 109,121. Jan. 8, 1878.	448,716 Hilliard, John S., March 24, 1891, 761 328 References—Ackley, 273,423. March 6, 1883. 458,710 DeWolfe, Edward R., Sept. 1, 1891, 761 328 No references.
360,269 Beach, Oliver B., March 29, 1887, 756 325 No references.	275,485 Hart, Harrie B., April 10, 1883, . . . . . 762 286 No references.
362,853 Pool, J. George, May 10, 1887, . . . . . 757 325 No references.	279,448 Senseney, Edgar M., June 12, 1883, . . . . . 762 286 References—Barton, 171,084. Dec. 14, 1875.
	285,933 Serrell, Harold, Oct. 2, 1883, . . . . . 762 286 References—Truby, 240,203. April 12, 1881. Neveling, 153,779. Aug. 4, 1874. Cook, 35,3008. Jan. 31, 1882. Cunningham, 72,459. Dec. 24, 1867. Allen, 167,725. Sept. 14, 1875.
	300,568 Butcher, Joseph, June 17, 1884, 762 286 No references.
	310,620 Shute, Richard G., Jan. 13, 1885, 763 286 No references.

- 320,100 Ware, Theodore E., June 16, 1885, 764 286  
No references.  
334,495 Ware, Theodore E., Jan. 19, 1886, 764 287  
References—Seiseney, 279,448. June 12, 1883.  
391,483 Nichols, Herman, and Rose,  
    Henry C., Oct. 23, 1888, . . . . . 764 287  
References—Nelson, 334,888. Jan. 26, 1886.  
436,979 Jiran, Charles G., Sept. 23, 1890, 764 287  
References—Burton, 340,698. April 27, 1886.  
    Boyd, 293,938. Feb. 19, 1884.  
    Ilyne-Berline, 362,216. May 8, 1887.  
    5,078 of 1886. Engli-h.

### Alarms, Whistles.

- 35,583 Bögel, Henry, June 17, 1862, . . . . . 765 287  
No references.  
326,745 Johnson, Frederick L., Sept. 22,  
    1885, . . . . . 765 287  
References—4,141 of 1880. English.  
    4,492 of 1881. "  
    2,884 of 1860. "  
    Murray, 60,541. Dec. 1, 1866.  
385,547 Demarest, Francis M., July 3,  
    1888, . . . . . 765 287  
References—Bögel, 35,583. June 17, 1862.  
    Huber, 280,179. June 26, 1883.  
    Beaty, 295,144. March 18, 1884.  
    Howe, 330,027. Nov. 10, 1885.  
    Hanson, 4,492 of 1881. English.  
    Garvie, 20 of 1885.  
    Tarr, 212,635. Feb. 25, 1879.  
        Interference with application of A. T.  
        Vignerion. Decision favorable to Demarest.  
439,492 Dyre, William E., Oct. 28, 1890, 765 288  
References—Demarest, 385,547. July 3, 1888.  
    Zimlars, 222,343. Dec. 2, 1879.  
    Spare, 79,271. June 23, 1868.  
    Brown's 507 Mechanical Movements, No. 93.

### Lanterns and Holders.

- 250,737 Jackson, Frederick A., and Frisbie,  
    William M., Dec. 13, 1881, . . . . . 766 288  
No references.  
281,580 Talbot, Frank H., and Brown,  
    Fernando, July 17, 1883, . . . . . 766 288  
References—Miller, 264,955. Sept. 26, 1882.  
    Lesson, 4,106, of 1881. English.  
306,284 Richardson, Chester C., Oct. 7,  
    1884, . . . . . 766 288  
References—2,361 of 1882. English.  
307,511 Wilkins, John H., Nov. 4, 1884, 766 289  
References—2,493 of 1880. English.  
    593 of 1882. "  
    Talbot & Brown, 281,580. July 17, 1883.  
    Hensy, 39,413. Aug. 4, 1863.  
    Totherok, 80,519. July 23, 1868.  
    Gray, 252,371. Jan. 17, 1882.  
    Dressell, 202,711. April 23, 1878.  
    1,799 of 1881. English.  
    Hull et al., 119,518. Oct. 3, 1871.  
    Riquet, 280,669. July 3, 1880.  
    Graham, 85,004. Dec. 5, 1868.  
311,128 Hart, Harrie B., Jan. 20, 1885, 767 289  
References—Gray 252,371. Jan. 17, 1882.  
    Boesch, 132,433. Oct. 22, 1872.  
    Mills et al., 171,834. Jan. 4, 1876.

- Clark et al., 140,015. June 17, 1873.  
Ewing et al., 201,915. June 17, 1873.  
593 of 1882. English.  
3,697 of 1881. "  
1,110 of 1882. "  
4,106 of 1881. "  
1,799 of 1881. "  
3,697 of 1881. "  
2,493 of 1880. "  
1,114 of 1882. "  
1,799 of 1881. "  
356,112 Fish, Warren LaF., Jan. 18, 1887, 767 289  
References—Richardson, 306,284. Oct. 7, 1884.  
    Hadley, 339,167. April 6, 1886.  
    Gray, 252,371. Jan. 17, 1882.  
360,392 Prindle, Frank P., and Koyle C.  
    Herschel, March 29, 1887, . . . . . 767 289  
No references.  
362,612 Dobbins, Edwin A., May 10, 1887, 768 289  
No references.  
372,325 Parish, Thomas, Nov. 1, 1887, . . . . . 768 289  
References—Lufkin, 234,045. Nov. 2, 1880.  
    Lufkin, 260,303. June 27, 1882.  
    Sweet & Brace, 349,765. Sept. 28, 1886.  
373,911 Serrell, Harold, Nov. 29, 1887, . . . . . 768 290  
References—Trent, 216,541. June 17, 1879.  
    Rockwell, 205,422. June 25, 1878.  
    Wallingford, 132,995. Nov. 12, 1872.  
    433 of 1881. English.  
384,120 Bowers, Walter T., June 5, 1888, 769 290  
References—Jackson & Frisbie, 250,737. Dec. 13, 1881.  
443,207 Hering, Albert, Dec. 23, 1890, . . . . . 769 290  
References—593 of 1882. English.  
    7,964 of 1885. "  
    1,214 of 1887. "  
    Lucas, 497,409. July 23, 1889.  
    16,952 of 1886. English.
- 
- Locks and Locking Attachments.
- 276,600 Kenfield, William, and Stilwell,  
    Henry M., May 1, 1883, . . . . . 769 310  
No references.  
288,154 Bain, William B., Nov. 6, 1883, 1049 310  
No references.  
337,183 Merrill, Anson P., March 2, 1886, 770 310  
No references.  
431,457 Glover, Truman J., July 1, 1890, 770 310  
No references.  
432,920 Wittlig, Fred. E., July 22, 1890, 770 310  
References—Readio, 420,416. Jan. 28, 1890.  
    13,962 of 1885. English.  
435,157 Singer, George, and Lea, Richard  
    H., Aug. 26, 1890, . . . . . 771 310  
References—Johnston, 314,335. March 24, 1885.  
    13,962 of 1885. English.  
436,453 Backus, Edward, Sept. 16, 1890, 771 310  
References—Kenfield & Stilwell, 276,600. May 1, 1883.  
    4,917 of 1881. English.  
    Dimon, 382,955. May 15, 1888.  
436,800 Parke, Kate, Sept. 23, 1890, . . . . . 771 310  
References—Rheubottom, 199,468. Jan. 22, 1878.  
437,591 Glover, Truman J., Sept. 30, 1890, 771 311  
No references.  
438,526 Butler, Maguler, Oct. 14, 1890, . . . . . 772 311  
No references.

P.	C.	P.	C.
440,949 Fuller, George R., Nov. 18, 1890,	772 311	444,089 Lamson, Charles H., Jan. 6, 1891,	777 301
References—Knous, 279,556. June 26, 1883.		References—Dabbs, 436,403. Sept. 16, 1890.	
3,700 of 1876. English.		Lamson, 253,211. Feb. 7, 1882.	
Martin, 420,815. Feb. 4, 1890.			
441,857 Smith, Quittman A., Dec. 2, 1890,	772 311	444,642 Allen, Thomas G., Jr., Sachtleben,	
References—753 of 1881. English.		William L., and Walters, John F.,	
618 of 1876. "		Jan. 13, 1891, . . . . .	778 302
Glover, 431,457. July 1, 1890.		References—9,966 of 1880. English.	
44,448. German.		446,748 Blood, Maurice E., Feb. 17, 1891,	778 302
441,949 Fuller, George R., Dec. 2, 1890,	772 311	References—Lamson, 253,211. Feb. 7, 1882.	
References—Glover, 431,457. July 1, 1890.		Ross, 343,549. June 8, 1886.	
44,448. German.		Wall, 438,720. Oct. 21, 1890.	
451,035 Fortier, Charles L., April 28, 1891,	773 311	Lynam, 441,679. Dec. 2, 1890.	
References—8,481 of 1884. English.		6,059 of 1889. English.	
Johnston, 314,335. March 24, 1885.		3,278 of 1887. "	
18,579 of 1888. English.		450,673 Lamson, Charles H., April 21,	
458 832 Hohoff, Frederick H., Sept. 1, 1891,	773 312	1891, . . . . .	778 302
No references.		No references.	
—			
Luggage Carriers.			
238,245 Morris, Freelon, March 1, 1881,	773 299	452,977 Lamson, Charles H., May 26, 1891,	778 302
References—Vincent, 198,021. Dec. 11, 1877.		No references.	
253,211 Lamson, Charles H., Feb. 7, 1882,	774 299	453,311 Blood, Maurice E., June 2, 1891,	779 302
No references.		References—Blood, 446,749. Feb. 17, 1891.	
299,609 Wood, John B., June 3, 1884,	774 300	466,064 Dustin, Frank J., Dec. 29, 1891,	779 303
References—Petius, 235,013. Nov. 30, 1880.		References—Lamson, 253,211. Feb. 7, 1882.	
Wilkinson, 47,889. May 23, 1865.		Ross, 343,549. June 8, 1886.	
302,462 Zacharias, Charles R., July 22,		Dabbs, 436,403. Sept. 16, 1890.	
1884, . . . . .	774 300	Glover, 431,457. July 1, 1890.	
No references.		—	
343,549 Ross, Charles H., June 8, 1886,	774 300	Couplings for Socials.	
References—Zacharias, 302,462. July 22, 1884.		90,302 Racey, William H., May 18, 1869,	779 277
343,909 Lamplugh, James A., June 15,		No references.	
1886, . . . . .	775 300	247,754 Fowler, Francis, Oct. 4, 1881,	780 277
References—Morris, 238,245. March 1, 1881.		References—McCleave, 88,889. April 13, 1869.	
10,788 of 1884. English.		Schmidlapp, 97,969. Dec. 14, 1869.	
Zacharias 302,462. July 22, 1884.		Fowler, 227,511. May 11, 1880.	
352,331 Lamplugh, James A., Nov. 9, 1886,	775 300	317,377 Kirk, John A., May 5, 1885,	780 277
References—Hillman, 241,361. May 10, 1881.		No references.	
Morse, 118,632. Aug. 29, 1871.		408,516 Phillips, Walter, and Smith, Robert W., Aug. 6, 1889,	780 277
363,355 Baumhüller, Caesar, R., May 24, 1887,	776 301	References—12,507 of 1884. English.	
References—Crofford & Van Dyke, 239,938. April 12,		442,275 Rothgiesser, Georg, Dec. 9, 1890,	781 278
1881.		References—9,800 of 1888. English.	
Marsh, 258,660. May 30, 1882.		5,530 of 1885. "	
Keeney, 185,181. Dec. 12, 1876.		10,239 of 1887. "	
Lamplugh, 343,909. June 15, 1886.		453,441 Gertenbach, Louis P. J., and	
Ross, 343,549. June 8, 1886.		Hampf, William, June 2, 1891,	781 278
398,945 Credlebaugh, Henry S., March 5,		References—Racey, 90,302. May 18, 1869.	
1889, . . . . .	776 301	Rothgiesser, 442,275. Dec. 9, 1890.	
No references.		1,400 of 1880. English.	
436,403 Dabbs, William, Sept. 16, 1890,	776 301	5,902 of 1888. "	
No references.		9,800 of 1888. "	
438,720 Wall, Robert C., Oct. 21, 1890,	776 301	453,713 Riess, Rudolph W., June 9, 1891,	781 278
References—Zacharias, 302,462. July 22, 1884.		References—Rothgiesser, 442,275. Dec. 9, 1890.	
Lamplugh, 352,331. Nov. 9, 1886.		Racey, 90,302. May 18, 1869.	
12,909 of 1887. English.		449 of 1889. English.	
441,679 Lynam, Frank, Dec. 2, 1890,	777 301	1,400 of 1889. "	
No references.		3,518 of 1890. "	
442,938 Barkman, Albert B., Dec. 16,		5,902 of 1888. "	
1890, . . . . .	777 301	9,800 of 1888. "	
No references.		—	
Steps and Rests.			
259,535 Harwood, George F., June 13, 1882,	782 278	297,991 Harwood, George F., May 6, 1884,	782 278
No references.		References—668 of 1881. English.	

<i>P. C.</i>	<i>P. C.</i>
374,287 Benfield, Thomas, Dec. 6, 1887 782 278 No references.	439,372 Baker, Henry H., Jr., Oct. 28, 1890, 788 312 References—Hogan, 295,870. March 25, 1884. Vorck, 366,705. July 19, 1887. 3,759 of 1886. English. Baker, 432,591. July 22, 1890.
379,557 Benfield, Thomas, March 20, 1888, 782 278 No references.	446,819 Ostergren, Otto F., and Schaap, Alexander K., Feb. 17, 1891, . . . 788 313 References—Raiford, 115,238. May 23, 1871. Bickford, 187,247. Feb. 13, 1877. Manning, 175,476. March 28, 1876. Euphrat, 246,482. Aug. 30, 1881.
388,480 Day, George H., Aug. 28, 1888, 783 279 References—Harwood, 297,991. May 6, 1884.	—
396,182 Walter, Henry, Jan. 15, 1889 783 279 References—Carter, 354,535. Dec. 21, 1886. Benfield, 374,287. Dec. 6, 1887.	416,541 Armstrong, Frank, Dec. 3, 1889 783 279 No references.
402,304 Chapin, Horatio P., April 30, 1889, 783 279 References—Day, 388,480. Aug. 28, 1888. 5,817 of 1885. English,	449,460 Bannister, Loring H., March 31, 1891, . . . . . 788 313 References—Foley, 369,702. Sept. 13, 1887.
416,696 Warwick, George T., Dec. 3, 1889, 784 279 References—Jeffery, 365,074. Jan. 21, 1887. 282 of 1881. English. 668 of 1881. Hadley, 380,886. April 10, 1888. 3,833 of 1883. English. Zacharias, 302,462. July 22, 1881. Latta, 391,900. Oct. 30, 1888.	462,018 Robinson, John T., Oct. 27, 1891, 789 313 No references.

### Home Trainers.

260,053 Sawyer, Sylvester, June 27, 1882, 784 320 References—Pressey, 233,640. Oct. 26, 1880.
330,430 Seiler, Albert P., Nov. 17, 1885, 784 320 References—4,707 of 1882. English.
359,800 McClintock, Jay, March 22, 1887, 785 320 References—4,707 of 1882. English.
431,740 Curtis, Henry J., July 8, 1890, 785 320 No references.
442,980 James, Jack W., Dec. 16, 1890, 785 321 No references.
463,862 Guignard, Louis F., Nov. 24, 1891, 786 321 No references.

### Supports for Cyclers' Pantaloons.

115,238 Raiford, Phillip H., May 23, 1871, 786 312 No references.
175,476 Manning, Robert S., March 28, 1876, . . . . . 786 312 No references.
187,247 Bickford, Ezekiel C., Feb. 13, 1877, 787 312 No references.
246,482 Euphrat, Frederic, Aug. 30, 1881, 787 312 References—Manning, 175,476. March 28, 1876.
295,870 Hogan, William H., March 25, 1884, . . . . . 787 312 References—Newton, 103,915. June 7, 1870. Richardson, 73,121. Jan. 7, 1868. Lücke & Bremmer, 155,247. Sept. 22, 1874. Strong, 122,336. Jan. 2, 1872.
366,705 Vorck, Frederick, July 19, 1887, 787 312 No references.

432,591 Baker, Henry H., Jr., July 22, 1890, 788 312 References—Dodge, 391,739. Oct. 23, 1888. Jones, 400,344. March 26, 1889. Irwin, 371,264. Oct. 11, 1887. Pratt, 376,547. Jan. 17, 1888.
--

446,819 Ostergren, Otto F., and Schaap, Alexander K., Feb. 17, 1891, . . . 788 313 References—Raiford, 115,238. May 23, 1871. Bickford, 187,247. Feb. 13, 1877. Manning, 175,476. March 28, 1876. Euphrat, 246,482. Aug. 30, 1881.
—
Oil Can Holders.
449,460 Bannister, Loring H., March 31, 1891, . . . . . 788 313 References—Foley, 369,702. Sept. 13, 1887.
462,018 Robinson, John T., Oct. 27, 1891, 789 313 No references.
Interference with application of Brower & Stillman. Decision favorable to Robinson.
463,093 Brower, Edwin, and Stillman, Augustus M., Nov. 10, 1891, . . . 789 314 No references.
Interference with application of John T. Robinson. Decision favorable to Robinson.

### Awnings and Umbrellas.

94,927 Tyler, Charles M., Sept. 14, 1869, 789 313 No references.
339,793 Libbey, Horsea W., April 13, 1886, . . . . . 790 313 No references.
380,059 Snowden, Clarence, March 27, 1888, . . . . . 790 313 No references.
—

### Watch Holders.

369,702 Foley, John Jr., Sept. 13, 1887, 790 288 No references.
465,159 Cain, Harry A., Dec. 15, 1891, 790 288 References—Foley, 369,702. Sept. 13, 1887. 4,762 of 1889. English.
—

### Animal Propelled.

109,644 Mey, F. H. C., Nov. 29, 1870, . . . 791 321 References—507 Mechanical Movements, par. 376, p. 93. Fraser & Austin, 91, 550. June 22, 1869.
171,137 Huret, Narcisse, Dec. 14, 1875, . . . 791 321 References—Mey, 109,644. Nov. 29, 1870.
435,493 Garwood, Spencer, Sept. 2, 1890, 791 321 References—Augell, 282,944. Aug. 14, 1883. 5,280 of 1825. English.
—

### Cotton Pickers'.

120,478 Asbile, Lewis M., Oct. 31, 1871, . . . 792 309 References—Horton, N. N. (Rejected case.) Filed June 8, 1869.
--

<i>P. C.</i>	<i>P. C.</i>
157,824 Hess, Charles and George E., Dec. 15, 1874, . . . . . 792 310	19,881 The Raleigh Cycle Co., Limited, July 14, 1891, . . . . . 802 802
References—Asbile, 120,478. Oct. 31, 1871. 4	No references.
—	
Trade-Marks.	
6,942 The Pope Manufacturing Company, Jan. 7, 1879, . . . . . 793 793	19,886 Bidwell, George R., Cycle Co., July 14, 1891, . . . . . 803 803
No references.	No references.
7,929 Perkins, Nahum S. C., June 1, 1880, 793 793	19,953 Warman & Hazlewood, Limited, July 28, 1891, . . . . . 803 803
No references.	No references.
12,406 Hillman, Herbert and Cooper, July 14, 1885, . . . . . 794 794	20,325 Humber & Co., Limited, Nov. 3, 1891, . . . . . 804 804
No references.	No references.
12,598 Singer, George, Sept. 22, 1885, . . 794 794	20,574 The McIntosh-Huntington Co., Jan. 12, 1892, . . . . . 804 804
No references.	No references.
12,961 Rudge D., & Co., Jan. 19, 1886, . . 795 795	20,588 Sercombe, Parker H., Jan. 12, 1892, 805 805
No references.	No references.
15,677 St. George's Engineering Company, July 10, 1888, . . . . . 795 795	20,839 Pugh, Charles H., March 15, 1892, 805 805
No references.	No references.
16,702 Starley Bros., June 4, 1889, . . . . 796 796	20,883 Whittier, David L., March 22, 1892, 806 806
No references.	No references.
17,608 Union Cycle Manufacturing Com- pany, March 4, 1890, . . . . . 796 796	20,884 Whittier, David L., March 22, 1892, 806 806
No references.	No references.
17,946 Samuels, Asser J., May 27, 1890, 797 797	20,893 Smith Wheel Manufacturing Co., March 22, 1892, . . . . . 807 807
No references.	No references.
18,348 Banker & Campbell Company, Limited, Aug. 26, 1890, . . . . . 797 797	—
No references.	Wheels.
18,349 Banker & Campbell Company, Limited, Aug. 26, 1890, . . . . . 798 798	1,440 Tolles, Elisha, Dec. 27, 1839, . . . . . 855 393.
No references.	No references.
19,157 Morris, George L., and Wilson, William T., March 10, 1891, . . . . . 798 798	3,979 Scripture, Eliphalet S., April 1, 1845, . . . . . 855 393
No references.	No references.
19,172 Spalding, A. G. & Bros., March 10, 1891, . . . . . 799 799	4,918 Holmes, Ira, Jan. 1, 1847, . . . . . 855 393
No references.	No references.
19,173 Spaulding A. G., & Bros., March 10, 1891, . . . . . 799 799	7,874 Lamb, John, and Root, Charles H., Jan. 1, 1851, . . . . . 856 393
No references.	No references.
19,220 The Eagle Bicycle Manufacturing Company, March 24, 1891, . . . . . 800 800	15,297 Latta, Alexander B., July 8, 1856, 856 393
No references.	No references.
19,296 Keefe & Beccannon, April 7, 1891, 800 800	20,652 McConaughy, Thomas, and McCol- lum, James, June 22, 1858, . . . . . 856 393
No references.	References—McConaughy & McCullum, (Rejected case). Filed Jan. 1858.
19,552 Gormully & Jeffery Manufacturing Company, May 19, 1891, . . . . . 801 801	39,561 Finchbaugh, Henry K., Aug. 18,, 1863, . . . . . 856 393
No references.	References—Davidson, W., (Rejected case). Filed Dec. 23, 1851. Childs, J. (Withdrawn). Oct. 27, 1851. Burbank, L. (Withdrawn). Nov. 12, 1848. Holmes, 4,918. Jan. 1, 1847.
19,553 Gormully & Jeffery Manufacturing Company, May 19, 1891, . . . . . 801 801	43,651 Woodard, George B. and A. B., July 26, 1864, . . . . . 857 393
No references.	References—Fisher, J. P., 30,915. Dec. 18, 1860. Flinchbaugh, 39,561. Aug. 18, 1863. Latta, 15,297. July 8, 1856.
19,858 Hillman, Herbert and Cooper, Lim- ited, July 7, 1891, . . . . . 802 802	50,425 Stoliker, Joseph, Oct. 10, 1865, . . 857 393
No references.	No references.

	<i>P. C.</i>		<i>P. C.</i>		
52,422 Lane, Thomas A., Feb. 6, 1866,	857	394	102,853 Munson, Ira F., May 10, 1870,	862	395
References—Slack, Isaac. Oct. 10, 1846. Lamb & Root. Jan. 1, 1851.			References—Ayles, 70,681. Nov. 12, 1867. Belden & Ford, 85,269. Dec. 29, 1868.		
69,403 Buzzell, John G., Oct. 1, 1867,	858	394	103,114 Wonser, Mileden, May 17, 1870,	863	395 *
References—Stoliker, 50,425. Oct. 10, 1865. Barker, W. C. (Rejected case). Filed July 10, 1851.			References—Hall, C. W. (Forfeited case). Filed May 27, 1865. Ayles, 70,681. Nov. 12, 1867.		
70,681 Ayer, Charles C., Nov. 12, 1867,	858	394	104,208 Ross, John D., June 14, 1870,	863	395
References—Raddin, John, 48,207. June 13, 1865. Bowen & Pedrick. (Rejected case). Filed July 13, 1854.			No references.		
72,233 Simmons, Frederick G., Dec. 17, 1867,	858	394	111,708 Withington, George, Feb. 7, 1871,	863	395
References—Scripture, 3,979. April 1, 1855. Stoliker, 50,425. Oct. 10, 1865.			References—DeValin, W. H., 81,758. Sept. 1, 1868. Rhodes, M. G. (Rejected case). Filed Nov. 21, 1864.		
72,538 Raddin, John, Dec. 24, 1867,	859	394	127,063 Johnston, James A., May 21, 1872,	863	395
No references.			No references.		
9,963 } Raddin, John, Dec. 6, 1881, (R.)	859	394	128,211 Clark, Jerome, June 25, 1872,	864	395
72,538 } 1867. English. Tolles, 1,440. Dec. 27, 1839.			References—Lane, T. A., 52,422. Feb. 6, 1866. Reed, J. A., 94,839. Sept. 14, 1869. Baxter, A., 102,079. April 19, 1870. Fisher, J. P., 30,915. Dec. 18, 1860. Crandall, J. A., 31,110. Jan. 15, 1861. Martiness, George, 115,623. June 6, 1871.		
74,579 Nevison, Thomas, Jr., and James, Feb. 18, 1868,	859	394	134,894 Kellogg, Hiram, Jan. 14, 1873,	864	395
References—Lamb & Root, 7,874. Jan. 1, 1851. Rogers, F. O. (Rejected case). Filed Nov. 15, 1854.			References—Whiting, James M., 61,293. Jan. 15, 1867. Bailey, J. M., 71,676. Dec. 3, 1867. Kafader, John, 126,215. April 30, 1872.		
81,758 DeValin, W. H., Sept. 1, 1868,	859	394	136,567 Vreeland, Simon, March 4, 1873,	864	395
References—Stoliker, 50,425. Oct. 10, 1865. Murphy, Thomas. (Rejected case). Filed Aug. 16, 1851.			References—Coombs, Joseph M., 63,705. April 9, 1867. Johnson, W. C., 130,134. Aug. 6, 1872.		
81,828 Seymour, George W., Sept. 1, 1868,	860	394	136,607 McIntire, Samuel, March 11, 1873,	864	395
References—Scripture, 3,979. April 1, 1845.			References—Latta, 15,297. July 8, 1856. Kessberger, A. (Forfeited case). Filed March 8, 1869. Ball, J. Williams. (Rejected case). Filed March 27, 1865. Mellen, George H., 101,295. May 29, 1870.		
82,690 Buzzell, John G., Oct., 6, 1868,	860	394	141,715 House, Philander C., Aug. 12, 1873,	865	396
References—Fowler, J. C., & G. F., (Rejected case). Filed Feb. 16, 1850. Ball, J. W. (Rejected case). Filed March 27, 1865. Ayre, 70,681. Nov. 12, 1867.			References—Seymour, 81,828. Sept. 1, 1868. Ball, Albert, 120,022. Oct. 17, 1871. Roth, H. June 2, 1868.		
87,913 Cummings, Charles, March 16, 1869,	860	394	143,813 Dimmick, Daniel, Oct. 21, 1873,	865	396
References—Stoliker, 50,425. Oct. 10, 1865. Buzzell, 82,690. Oct. 6, 1868. Bing, J. (Rejected case). Filed Sept. 12, 1855.			References—Fair & Capps. (Rejected case). Filed Feb. 25, 1861. Price, V. (Rejected case). Jan. 30, 1869. Woodman M. (Rejected case). Filed Sept. 26, 1867.		
92,915 Vreeland, Simon, July, 20, 1869,	860	394	143,820 Glover, Joseph H., Oct. 21, 1873,	865	396
References—Raddin, John. (Rejected case). Filed Oct. 8, 1866. Prentiss, Arthur, 64,794. May 14, 1867. Woodward & Smith, 56,315. July 10, 1866.			No references.		
5,237 } Vreeland, Simon, (R.) Jan. 14, 92,915 } 1873,	861	394	148,422 Davis, Robert W. and Daniel, March 10, 1874,	865	396
References—Woodward & Smith, 56,315. July 10, 1866. Prentiss, 64,794. May 14, 1867.			References—Cooper, George E. (Rejected case). Filed Sept. 26, 1860. Kline, Joseph. (Rejected case). Filed March 2, 1857. Young, McC. (Rejected case). Filed Sept. 6, 1860.		
93,067 Davis, D. P., July 27, 1869,	861	395	150,021 Gendron, Peter, April 21, 1874,	866	396
References—Latta, 15,297. July 8, 1856.			References—Seymour, 81,828. Sept. 1, 1868. Stoliker, 50,425. Oct. 10, 1865. Casey, Peter. (Rejected case). Filed Oct. 12, 1870.		
94,325 Look, Obed, Aug. 31, 1869,	861	395	151,360 Davis, Robert W., May 26, 1874,	866	396
References—Stoliker, 50,425. Oct. 10, 1865. Bing, J. (Rejected case). Filed Sept. 12, 1855.			References—Goddon, C., 59,385. Nov. 6, 1866.		
94,839 Reed, John A., Sept. 14, 1869,	861	395	153,207 Weaver, Thophilus, July 21, 1874,	866	396
References—Hinkle, Benj. (Rejected case). Filed Aug. 15, 1850. Rogers, F. O. (Rejected case). Filed May 10, 1855.			No references.		
98,920 Buzzell, John G., Jan. 18, 1870,	862	395			
References—Woodard, 43,651. July 26, 1864. Rowe, James. Jan. 26, 1847.					

P. C.	P. C.
153,557 Fredenburgh, John, July 28, 1874, 866 396	216,956 Hill, Frank A., July 1, 1879, 872 398
References—Vreeland, 92,915. July 20, 1869. Vreeland, (R.) 5,237. Jan. 14, 1873. Vreeland, 136,567. March 4, 1873. Fowler, J. C. and G. F. (Rejected case). Filed Feb. 16, 1850.	References—Vreeland, (R.) 5,237. Jan. 14, 1873. Wilder, 205,161. June 18, 1878. Duval, 124,729. March 19, 1872. Tolles, 1,440. Dec. 27, 1839.
154,913 Rogers, Lewis H., Sept. 8, 1874, . 867 396	219,500 Munson, Ira F., Sept. 9, 1879, 872 398
No references.	References—Vreeland, (R.) 5,237. Jan. 14, 1873. Rowe, 4,946. Jan. 26, 1847. Munson, 102,853. May 10, 1870.
156,240 Stultz, Sidney S., Oct. 27, 1874, . 867 396	222,611 Valentine, Waldo W., Dec. 16, 1879, . . . . . 873 398
No references.	References—Harris, 206,442. July 30, 1878. Gendron, 150,021. April 21, 1874. Stoliker, 50,425. Oct. 10, 1865. Cummings, 87,913. March 16, 1869. Look, 94,325. Aug. 31, 1869.
158,758 Turner, Benjamin G., Jan. 12, 1875, . . . . . 867 397	234,196 Newlin, William, Nov. 9, 1880, 873 398
References—Stultz, 156,240. Oct. 27, 1874.	References—Shaw, 166,151. July 27, 1875. Hariston, 143,282. Sept. 30, 1873. Kellar, 161,966. April 13, 1875. Turner, 158,758. Jan. 12, 1875.
160,268 Hodges, Andrew J., March 2, 1875, 867 397	237,235 Bean, John and Roscoe, Feb. 1, 1881, . . . . . 873 398
References—House, 141,715. Aug. 12, 1873. Blackman, (R.) 5,264. Jan. 28, 1873.	No references.
161,966 Keller, Martin L. and James M., April 13, 1875, . . . . . 868 397	239,976 Neff, Joseph B., April 12, 1881, . 874 398
No references.	References—Gardner, 148,880. March 24, 1874. Latta, 15,297. July 8, 1856.
166,151 Shaw, Edward, July 27, 1875, . 868 397	241,567 Smith, Melvin L., May 17, 1881, 874 398
References—Stoliker, 50,425. Oct. 10, 1865. Gendron, 150,021. April 21, 1874. Davis, 148,422. March 10, 1874.	References—Rowe, 4,946. Jan. 26, 1847. Woodward & Smith, 56,315. July 10, 1866.
169,272 Kester, Ira, Oct. 26, 1875, . 868 397	242,033 Peck, Aaron D., May 24, 1881, . 874 399
No references.	References—Seymour 81,828. Sept. 1, 1868.
170,866 Ludlow, Samuel W., Dec. 7, 1875, 869 397	243,569 Jefferson, Thomas E., June 28, 1881, . . . . . 875 399
References—Vreeland, (R.) 5,237. Jan. 14, 1873.	References—3,152 of 1870. English. Cummings, 87,913. May 16, 1869. Munson, 179,500. Sept. 9, 1879. 1,163 of 1874. English. Barnard, 748. May 25, 1838. Tolles, 1,440. Dec. 27, 1839. 882 of 1876. English. Ludlow, 170,866. Dec. 7, 1875. Munson, 102,853. May 10, 1870. Lamb & Root, 7,874. Jan. 1, 1857. Lambert, 225,225. March 9, 1880. Look, 94,325. Aug. 31, 1869. 2,236 of 1870. English. Thompson, 96,635. Nov. 9, 1869. Duval, 124,729. March 19, 1872. 2,524 of 1853. English.
170,994 Crosby, Giles H., Dec. 14, 1875, 869 397	244,296 Prosser, Treat T., July 12, 1881, . 876 399
References—Buzzell, 82,690. Oct. 6, 1868. Cummings, 87,913. March 16, 1869.	References—French, 102,107. April 19, 1870. Prosser (pending). Filed Nov. 19, 1880.
189,318 McGowan, John, April 10, 1877, 869 397	244,742 Crowell, John S., July 26, 1881, 876 399
No references.	References—Stoliker, 50,425. Oct. 10, 1865. Valentine, 222,611. Dec. 16, 1873. Glover, 143,820. Oct. 21, 1873.
192,189 Remington, De La Fayette, June 19, 1877, . . . . . 870 397	245,843 Long, Michael, Aug. 16, 1881, . 876 399
References—Duval, 124,729. March 19, 1872. Shaw, 166,151. July 27, 1875. Seymour, 81,828. Sept. 1, 1868.	References—Potts & Ogden, 102,861. May 10, 1870. Koelle, 23,776. Oct. 26, 1880. Scripture, 3,979. April 1, 1845. Nelson, 161,880. April 13, 1875. Bultz & Baker, 217,106. July 8, 1879.
197,155 Mead, Ira W., Nov. 13, 1877, . 870 397	246,650 Work, Charles L., Sept. 6, 1881, 877 399
References—Stevens, 86,709. Feb. 9, 1869. Ayer, 70,681. Nov. 12, 1867. Davis, 118,846. Sept. 12, 1871.	References—Davis, 151,360. May 26, 1877. Marble, 171,023. Dec. 28, 1873. Buzzell, 80,443. Oct. 1, 1867. Marble, 185,401. Dec. 10, 1870.
200,326 Mohler, Charles F. and James B., Feb. 12, 1878, . . . . . 870 397	
References—Ayer, 61,793. Feb. 5, 1867. Beebe, March 12, 1834.	
204,903 Lane, John, June 18, 1878, . 870 397	
References—Sellers, 17,236. May 5, 1857. Hodson, 71,008. Nov. 19, 1867.	
206,442 Harris, Joshua W., July 30, 1878, 871 397	
References—Gendron, 150,021. April 21, 1874. Gardiner, 148,880. March 24, 1874. Gaines, 117,878. Aug. 8, 1871.	
209,856 Brown, Thomas, Nov. 12, 1878, 871 398	
No references.	
210,701 Marshall, Justice W., Dec. 10, 1878, . . . . . 871 398	
References—Williamson, 128,084. June 18, 1872. Shaw, 166,151. July 27, 1875. Interference with application of Marquis L. Metcalf. Decision favorable to Metcalf.	
213,508 Hill, Frank A., March 25, 1879, 871 398	
References—Buzzell, 82,690. Oct. 6, 1868. Wietlitzbach, 158,342. Dec. 29, 1874.	

P. C.	P. C.
247,775 Miller, Thomas A., Oct. 4, 1881, 877 400 References—Clark, 128,211. June 28, 1872. 1,835 of 1858. English.	276,899 Scott, Emmet H., and Frenier, Joseph, May 1, 1883, . . . . . 882 401 References—Gendron, 261,222. July 18, 1882. Stoliker, 50,425. Oct. 10, 1865. Loughridge, 117,902. Aug. 8, 1871.
249,166 Fielding, George W., and Bryant, Henry E., Nov. 8, 1881, . . . . . 877 400 No references.	277,252 Ferguson, Edward G., May 8, 1883, . . . . . 882 402 References—Sperry & Vandenburg, 263,982. Sept. 5, 1882. Glover, 143,820. Oct. 21, 1873. Palmer, 135,244. Jan. 28, 1873.
250,644 Carpenter, James, Dec. 13, 1881, 877 400 References—Nevison, 74,579. Feb. 18, 1868. Bush, 196,873. Nov. 6, 1877. Racer, 192,934. July 10, 1877. Totter, 58,002. Aug. 20, 1867. Smith, 234,817. Nov. 23, 1880.	277,904 Josef, Edward E., May 22, 1883, 883 402 No references.
253,098 Prosser, Treat T., Jan. 31, 1882, 878 400 No references.	278,021 Jillson, Alonzo, May 22, 1883, . . . 883 402 No references.
254,873 Heller, James E., March 14, 1882, 878 400 References—Luce, 158,595. Jan. 12, 1875. Sinclair, 99,114. Jan. 25, 1870.	278,071 Allen, Arthur M., May 22, 1883, 888 402 References—Crosby, 170,994. Dec. 14, 1875. 59 of 1860. English. 2,524 of 1853. " " Arrington, 101,208. March 29, 1870. Ham, 92,606. July 13, 1869. Look, 94,325. Aug. 31, 1869. Work, 240,650. Sept. 6, 1881. Interference with the application of Sperry & Vandenburg. Decision favorable to Sperry & Vandenburg.
260,491 May, Leopold, July 4, 1882, . . . 878 400 No references.	278,438 Lane, John, May 29, 1883, . . . 884 402 References—Munson, 102,853. May 10, 1870. Munson, 219,500. Sept. 9, 1879. Harris, 206,442. July 30, 1878. Gendron, 261,222. July 18, 1882. Dimmick, 143,813. Oct. 21, 1873. Vreeland, 136,567. March 4, 1873. Vreeland, 92,915. July 20, 1869. Smith, 241,507. May 17, 1881. Woodward & Smith, 56,315. July 10, 1866.
262,171 Bean, John, Aug. 1, 1882, . . . 879 400 References—Harrison, 155,684. Sept. 15, 1874. Bean, 217,978. July 29, 1879. Marshall, 210,701. Dec. 10, 1878.	278,534 Gideon, Francis M., May 29, 1883 884 402 References—Rembert, 258,474. May 23, 1882. Stoliker, 50,425. Oct. 10, 1865.
262,990 Smith, Charles H., Aug. 22, 1882, 879 400 References—Newlin, 234,196. Nov. 9, 1880.	278,665 Lane, John, May 29, 1883, . . . 884 403 References—Ruggles, 221,976. Nov. 25, 1879. Smith, 241,567. May 17, 1881.
264,287 Hart, Albert J., Sept. 12, 1882, 879 401 References—Gendron, 150,021. April 21, 1874. Wright, 211,539. Jan. 21, 1879. Smith, 213,461. March 18, 1879.	281,633 Simmons, Thomas F., July 24, 1883, . . . . . 885 403 References—Crandall, 98,670. Jan. 11, 1870.
265,480 Bean, John and Roscoe, Oct. 3, 1882, . . . . . 880 401 References—Withy, 73,941. Jan. 28, 1868. Clist, 167,498. Sept. 7, 1875. Newlin, 234,196. Nov. 9, 1880. House, 141,715. Aug. 12, 1873. Munson, 102,853. May 10, 1870. Interference with application of F. M. Priestly. Decision favorable to Priestly.	283,271 Newlin, William, Aug. 14, 1883, 885 403 References—Seymour, 81,828. Sept. 1, 1868. Brown, 209,856. Nov. 12, 1878. Smith, 241,567. May 17, 1881.
268,058 Walrath, Jesse, Nov. 28, 1882, 880 401 References—Reid, 51,218. Nov. 28, 1865. Jones, 199,207. Jan. 15, 1878.	284,621 Engelbach, Augustus L., Sept. 11, 1883, . . . . . 885 403 References—Seymour, 81,828. Sept. 1, 1868. Leavitt, 34,149. Jan. 14, 1862. Scripture, 3,979. April 1, 1845. Baker & Ennis, 98,543. Jan. 4, 1870. Smith, 262,990. Aug. 22, 1882. House, 141,715. Aug. 12, 1873.
268,635 Delkescamp, Adolph, Dec. 5, 1882, 880 401 No references.	284,724 Day, Samuel, and Reason, Sept. 11, 1883, . . . . . 885 403 References—Newlin, 234,196. Nov. 9, 1880. Moss, 199,563. Jan. 22, 1878.
268,768 Bean, John and Roscoe, Dec. 5, 1882, . . . . . 880 401 References—Bean, 265,480. Oct. 3, 1882.	284,990 Vreeland, Aaron, Sept. 11, 1883, 886 403 No references.
269,919 Clark, Joseph, Jan. 2, 1883, . . . 881 401 References—Castleton, 105,821. April 12, 1870. Harrington, 282,267. Sep. 14, 1880.	285,401 Frenier, Joseph, Sept. 25, 1883, . . . 886 403 No references.
270,257 Stevens, Abram W., Jan. 9, 1883, 881 401 References—Glover, 143,820. Oct. 21, 1873. Ball & Davis, 241,276. May 10, 1881. Hamilton, 34,490. Feb. 25, 1862. Latte, 12,297. July 8, 1856.	286,476 Notley, William, Oct. 9, 1883, 886 403 References—Deaderick, 201,873. April 2, 1878. Delkescamp, 268,635. Dec. 5, 1882. Jefferson, 243,569. June 28, 1881.
270,481 Randall, Francis W., Jan. 9, 1883, 881 401 References—Sperry & Vandenburg, 263,982. Sep. 5, 1882. Cheever, 86,504. Feb. 2, 1869. 2,236 of 1870. English.	
273,746 Little, James R., March 13, 1883, 881 401 References—Shaw, 166,151. July 27, 1875. Loughridge, 117,902. Aug. 8, 1871. Dimmick, 143,813. Oct. 21, 1873. Rowe, 4,946. Jan. 26, 1847.	

- | P.  | C.      | P.  | C. |
|---|---------|---|----|
| 290,224 Frenier, Joseph, Dec. 18, 1883,                                   | 886 403 | Jefferson, 243,569. June 28, 1881.  |    |
| No references.  |         | Nehrung, 257,744. May 9, 1882.  |    |
| 291,457 Woodard, Alonzo B., Jan. 1, 1884,                                 | 887 403 | Stephenson, 159,049. Jan. 26, 1875.   |    |
| References—Mitchell, 117,799. Aug. 8, 1871.                               |         | 298,525 Warner, Jasper P., May 13, 1884, 890 405  |    |
| Buzzell, 98,920. Jan. 18, 1870.   |         | References—Duval, 124,729. March 19, 1872.  |    |
| Rice, 174,978. March 21, 1876.  |         | Jillson, 278,021. May 22, 1883.   |    |
| 292,072 Tice, David, Jan. 15, 1884,                                       | 887 404 | Vreeland, (R.) 5,237. Jan. 14, 1873.  |    |
| References—Rassman, 216,762. June 24, 1879.                               |         | 298,632 Smith, Melvin L., May 13, 1884, 890 405   |    |
| Lane, 278,438. May 29, 1883.  |         | No references.  |    |
| 292,143 Stein, Philip H., Jan. 15, 1884,                                  | 887 404 | 298,784 Seely, Horace C., May 20, 1884, 890 405   |    |
| No references.  |         | References—Kreiger, 119,523. Oct. 3, 1871.  |    |
| 292,617 Barr, William C., Jan. 29, 1884, 888 404                          |         | Oppenheimer, 168,523. Oct. 5, 1875.   |    |
| References—Turner, 158,758. Jan. 12, 1875.                                |         | Way, (R.) 8,583. Feb. 18, 1879.   |    |
| Gendron, 261,222. July 18, 1882.  |         | 299,120 Ellwood, Reuben, and Staugaard,   |    |
| 293,251 Howell, George W., Feb. 12, 1884, 888 404                         |         | Hans H., May 27, 1884, . . . . . 891 405  |    |
| References—Stolliker, 50,425. Oct. 10, 1865.                              |         | References—Tolles, 1,440. Dec. 27, 1839.  |    |
| Gendron, 261,222. July 18, 1882.  |         | Dinnick, 143,813. Oct. 21, 1873.  |    |
| 293,498 Neff, Joseph B., Feb. 12, 1884, 888 404                           |         | 299,711 Adams, Robert, June 3, 1884, 891 405  |    |
| References—Loughridge, 117,902. Aug. 8, 1871.                             |         | No references.  |    |
| Carpenter, 250,644. Dec. 13, 1881.  |         | 300,046 Carr, Robert S., June 10, 1884, 891 405   |    |
| Deadrick, 201,873. April 2, 1878.   |         | References—Look, 94,323. Aug. 31, 1869.   |    |
| Cornwall, 156,281. Oct. 27, 1874.   |         | Shaw, 166,151. July 27, 1875.   |    |
| Bush, 166,873. Nov. 6, 1877.  |         | Work, 246,650. Sept. 6, 1881.   |    |
| Delkescamp, 268,635. Dec. 5, 1882.  |         | Gendron, 261,222. July 18, 1882.  |    |
| Allaire, 75,105. March 3, 1868.   |         | 300,293 Williams, Samuel T., June 10, 1884, 892 405                                     |    |
| Steven, 270,257. Jan. 9, 1883.  |         | References—Sperry & Vandenburg, 263,982. Sept. 5, 1882.                                 |    |
| Interference with application of L. Luppen. Decision favorable to Luppen. |         | Randall, 270,481. Jan. 9, 1883.   |    |
| 294,025 Fish, Frank L. P., Feb. 26, 1884, 888 404                         |         | Fielding & Bryant, 249,166. Nov. 8, 1881.   |    |
| References—Nevison, 74,579. Feb. 18, 1868.                                |         | 300,392 Packer, John F., June 17, 1884, 892 406   |    |
| Lane, 52,422. Feb. 6, 1866.   |         | No references.  |    |
| Buzzell, 98,920. Jan. 18, 1870.   |         | 300,737 Rowlett, Jacob V., June 17, 1884, 892 406                                       |    |
| Carpenter, 250,644. Dec. 13, 1881.  |         | References—Bean, 265,480. Oct. 3, 1882.   |    |
| 59 of 1860. English.  |         | Bean, 268,768. Dec. 5, 1882.  |    |
| Richardson, 68,460. Sept. 3, 1867.  |         | Platt, 21,083. Aug. 3, 1858.  |    |
| Garth, 81,621. Sept. 1, 1868.   |         | Baker, 32,742. July 9, 1861.  |    |
| Pitner, 72,079. Dec. 10, 1867.  |         | 301,262 Orcutt, William D., July 1, 1884, 892 406                                       |    |
| Wigger, 70,928. Nov. 12, 1867.  |         | References—6,027 of 1830. English.  |    |
| Hughes, 227,632. May 18, 1880.  |         | 59 of 1860. "   |    |
| Wecker, 202,315. April 9, 1878.   |         | 303,229 Luppen, Luppe, Aug. 5, 1884, 893 406  |    |
| 294,056 Lynch, Edward P., Feb. 26, 1884, 889 404                          |         | References—Perkins, 13,012. June 5, 1855.   |    |
| References—Seymour, 81,828. Sept. 1, 1868.                                |         | Withington, 111,708. Feb. 7, 1871.  |    |
| Cummings, 87,913. March 16, 1869.   |         | Wilton, 68,017. Aug. 26, 1867.  |    |
| Scott & Frenier, 276,899. May 1, 1883.                                    |         | Neff, 29,349. Feb. 12, 1884.  |    |
| Shaw, 166,151. July 27, 1875.   |         | Interference with patent to Neff, 293,498. Feb. 12, 1884. Decision favorable to Luppen. |    |
| 294,668 Poolman, James, and Marks, Frank P., March 4, 1884, 889 404       |         | 303,284 Huber, Edward, Aug. 12, 1884, 893 406   |    |
| References—Close, 258,219. May 23, 1882.                                  |         | References—Frick, 262,758. Aug. 15, 1882.   |    |
| Libbey, 73,821. Jan. 28, 1868.  |         | 10,727 } Huber, Edward, May 18, 1886, 893 406   |    |
| Shepard, 149,598. July 8, 1873.   |         | (R.) . . . . . 893 406  |    |
| Greenleaf, 233,503. Oct. 19, 1880.  |         | No references.  |    |
| Unzicker, 247,442. Sept. 20, 1881.  |         | 303,285 Huber, Edward, Aug. 12, 1884, 893 406   |    |
| Lauer, 158,288. Dec. 29, 1874.  |         | No references.  |    |
| White, 123,960. Feb. 20, 1872.  |         | 303,503 Gallup, Henry C., Aug. 12, 1884, 894 406  |    |
| London, 1,305. Oct. 12, 1839.   |         | References—Randall, 270,481. Jan. 9, 1883.  |    |
| Howard, 158,639. Jan. 12, 1875.   |         | Stolliker, 50,425. Oct. 10, 1865.   |    |
| Loughridge, 117,902. Aug. 8, 1871.  |         | Fielding & Bryant, 249,166. Nov. 8, 1881.   |    |
| Bilhorn, 263,105. Aug. 22, 1882.  |         | Ferguson, 277,252. March 8, 1883.   |    |
| 296,307 Bell, John E., April 8, 1884, 889 404                             |         | Sperry & Vandenburg, 263,982. Sept. 5, 1882.  |    |
| References—Peck, 242,033. May 24, 1881.                                   |         | Glover, 143,820. Oct. 21, 1873.   |    |
| Van Vleet, 251,005. Dec. 13, 1881.  |         | 303,853 Howell, George W., Aug. 19, 1884, 894 406.                                      |    |
| 298,500 Powers, Lyman A., May 13, 1884, 889 405                           |         | References—Simmons, 72,233. Dec. 17, 1867.  |    |
| References—Schriber & Leonard, 284,074. Aug. 28, 1883.                    |         | Hill, 216,956. July 1, 1879.  |    |
| Davis, 186,812. Jan. 30, 1877.  |         | Woodward, 291,457. Jan. 1, 1884.  |    |
| Beatty, 165,650. July 20, 1875.   |         | Bean, 265,480. Oct. 3, 1882.  |    |
| Brunn, 182,555. Sept. 26, 1876.   |         |   |    |
| Beers, 151,346. May 26, 1874.   |         |   |    |
| Danford, 153,647. Oct. 24, 1876.  |         |   |    |
| Munson, 102,853. May 10, 1870.  |         |   |    |
| Richards, 132,107. Oct. 8, 1872.  |         |   |    |

- 305,727 Williams, Samuel T., Sept. 23, 1884, . . . . . 894 406  
 References—*546 of 1875*. English.  
*Stoliker*, 50,425. Oct. 10, 1865.  
*Shaw*, 166,151. July 27, 1875.  
*Gendron*, 261,222. July 18, 1882.
- 305,769 Williams, Samuel T., Sept. 30, 1884, . . . . . 895 407  
 References—*Sperry & Vandenburg*, 263,982. Sept. 5, 1852.  
*Randall*, 270,481. Jan. 9, 1883.  
*Stoliker*, 50,425. Oct. 10, 1865.
- 305,770 Williams, Samuel T., Sept. 30, 1884, . . . . . 895 407  
 No references.
- 305,771 Williams, Samuel T., Sept. 30, 1884, . . . . . 895 407  
 References—*Cummings*, 87,913. March 16, 1869.
- 305,772 Williams, Samuel T., Sept. 30, 1884, . . . . . 895 407  
 References—*Shaw*, 166,151. July 27, 1875.
- 306,450 Williams, Samuel T., Oct. 14, 1884, . . . . . 896 407  
 References—*Look*, 94,325. Aug. 31, 1869.  
*Vreeland*, 284,990. Sept. 11, 1883.
- 306,813 De Gray, Abram M., Oct. 21, 1884, 896 407  
 References—*Tuthill*, 110,698. Jan. 3, 1871.  
*McKibbin*, 120,159. Oct. 24, 1871.
- 307,021 Cummins, Patrick H., Oct. 21, 1884, . . . . . 896 407  
 References—*Scott & Frenier*, 276,899. May 1, 1883.  
*Buzzell*, 82,600. Oct. 6, 1868.  
*Gendron*, 261,222. July 8, 1882.  
*Stoliker*, 50,425. Oct. 10, 1865.  
*Goodwin*, 293,006. Feb. 5, 1884.
- 308,160 Hoke, John I., Nov. 18, 1884, 896 407  
 References—*Bonfield*, (R.) 515. Dec. 15, 1857.  
*Wolfe & Miltimore*, 268,341. Nov. 28, 1882.
- 308,292 Tower, Caleb E., Nov. 18, 1884, 897 407  
 No references.
- 308,747 Butler, Alonzo E., Dec. 2, 1884, 897 407  
 References—*Buzzell*, 82,600. Oct. 6, 1868.  
*Look*, 94,325. Aug. 31, 1869.  
*Goddard*, 59,353. Nov. 6, 1866.
- 309,193 Bruce, William J., Dec. 16, 1884, 897 408  
 References—*Deavalin*, 81,758. Sept. 1, 1868.  
*Steiner*, 167,132. Aug. 24, 1875.
- 309,355 Otto, Edward C. F., Dec. 16, 1884, 897 408  
 References—*Fish*, 294,025. Feb. 26, 1884.  
*Buzzell*, 98,920. Jan. 18, 1870.  
*Allen*, 278,071. May 22, 1883.
- 10,760 | Otto, Edward, C. F., Aug. 24, 1886, (R.) . . . . . 898 408  
 No references.
- 309,566 Schad, Barnhard, and Hoffman, George, Dec. 23, 1884, . . . . . 898 408  
 References—*Smith*, 298,632. May 13, 1884.  
*Carpenter*, 250,644. Dec. 13, 1881.  
*Smith*, 241,507. May 17, 1881.  
*McNamee*, 169,017. Oct. 19, 1875.  
*Vreeland*, 172,213. Jan. 11, 1876.  
*Hill*, 213,508. March 25, 1879.  
*Hall*, 204,563. June 4, 1878.
- 311,803 Blackham, George E., Feb. 3, 1885, 898 408  
 References—*Look*, 94,325. Aug. 31, 1869.  
*Williams*, 306,450. Oct. 14, 1884.
- 313,931 Frenier, Joseph, March 17, 1885, 899 408  
 References—*Danford*, 183,647. Oct. 24, 1876.
- 314,520 Deweesee, James E., March 24, 1885, . . . . . 899 408  
 References—*Lamb & Root*, 7,874. Jan. 1, 1851.  
*Reed*, 94,839. Sept. 14, 1869.  
*Nordmann*, 12,829. German.
- 315,346 Schember, Philipp, April 7, 1885, 900 408  
 References—*Shaw*, 166,151. July 27, 1875.
- 315,805 Marshall, Justice W., April 14, 1885, . . . . . 900 408  
 References—*Marshall*, 210,701. Dec. 10, 1878.  
*Dimmick*, 143,813. Oct. 21, 1873.
- 316,365 Howell, George W., April 21, 1885, 900 409  
 References—*Bean*, 237,235. Feb. 1, 1881.  
*Howell*, 293,251. Feb. 12, 1884.
- 317,494 Briggs, George S., May 12, 1885, 900 409  
 References—*Seymour*, 81,828. Sept. 1, 1868.  
*Munson*, 102,853. May 10, 1870.  
*Hill*, 216,956. July 1, 1879.  
*Hill*, 213,508. March 25, 1879.
- 319,452 Carr, Robert S., June 9, 1885, . . . . . 901 409  
 References—*Davis*, 148,422. March 10, 1874.  
*Munson*, 102,853. May 10, 1870.  
*Carr*, 300,046. June 10, 1884.  
*Buzzell*, 82,600. Oct. 6, 1868.  
*Shaw*, 166,151. July 27, 1875.  
*Tolles*, 1,440. Dec. 27, 1839.  
*Williams*, 305,709. Sept. 30, 1884.
- 319,777 Bean, Roscoe, and Grant, Arthur W., June 9, 1885, . . . . . 901 409  
 No references.
- 320,930 Grant, Arthur W., June 30, 1885, 901 409  
 References—*Kissel*, 155,590. Oct. 6, 1874.  
*Carpenter*, 250,644. Dec. 13, 1881.  
*Cook*, 156,773. Nov. 10, 1874.
- 321,219 Hemelright, Henry H., and Stone, George W., June 30, 1885, . . . . . 901 409  
 References—*Crandall*, 168,458. Oct. 5, 1875.  
*Kruger*, 260,399. July 4, 1882.
- 321,758 Sattley, Marshall, July 7, 1885, . . . . . 902 409  
 References—*Stoliker*, 50,425. Oct. 10, 1865.  
*Crowell*, 244,742. July 26, 1881.
- 322,174 Gibby, William, July 14, 1885, . . . . . 902 410  
 References—*Smith*, 262,990. Aug. 22, 1882.
- 322,277 Gendron, Peter, July 14, 1885, . . . . . 902 410  
 References—*Peck*, 244,288. July 12, 1881.  
*Dovey*, 264,637. Sept. 19, 1882.
- 323,441 Packer, John F., Aug. 4, 1885, . . . . . 902 410  
 References—*Williams*, 300,293. June 10, 1884.  
*Randall*, 270,481. Jan. 9, 1883.
- 324,072 Barrett, Henry J., Aug. 11, 1885, 903 410  
 References—*Crowell*, 244,742. July 26, 1881.  
*Lane*, 52,422. Feb. 6, 1866.  
*Fish*, 294,025. Feb. 26, 1884.  
*Frenier*, 290,224. Dec. 18, 1883.
- 324,952 Mustard, James E., Aug. 25, 1885, 904 410  
 References—*Howell*, 293,251. Feb. 12, 1884.  
*Lane*, 278,665. May 29, 1883.  
*Gendron*, 150,021. April 21, 1874.
- 325,024 Taylor, James, Aug. 25, 1885, . . . . . 904 410  
 References—*Beuler*, 239,429. March 29, 1881.  
*Danison*, 134,260. Dec. 24, 1872.  
*Jacobs*, 40,004. Sept. 15, 1863.  
*Perry*, 119,880. Oct. 10, 1871.  
*Williams*, 174,994. March 21, 1876.  
*Sweet*, 140,094. June 17, 1873.

P.	C.	P.	C.
Holt, 265,604. Oct. 10, 1882. Pyle, 189,386. April 10, 1877. Chase, 246,454. Aug. 30, 1881. Davis, 124,554. March 12, 1872. Craft, 120,720. Nov. 7, 1871. Edellhulte, 226,990. April 27, 1880. Sparks, 75,213. March 3, 1868. Crowell, 261,314. July 18, 1882. Simmons, 72,233. Dec. 17, 1867. Moor, 15,770. Sept. 23, 1856. Weaver, 179,671. July 11, 1876.		337,223 Williams, Samuel T., March 2, 1886, . . . . . References—Howell, 303,853. Aug. 19, 1884. Ball, 119,811. Oct. 10, 1871.	908 412
325,278 Rushmer, Benjamin, and Joyce, George A., Sept. 1, 1885, . . . . . References—Harris, 206,442. July 30, 1878. Hales, April 2, 1835.	904 410	338,484 Clair, Joshua R., March 23, 1886, . . . . . No references.	908 412
325,301 Williams, Samuel T., Sept. 1, 1885, 905 410 References—Bean, 237,235. Feb. 1, 1881. Lynch, 294,656. Feb. 26, 1884.		339,082 Williams, Samuel T., March 30, 1886, . . . . . References—Bruce, 309,193. Dec. 16, 1884. Howell, 303,853. Aug. 19, 1884.	909 412
325,585 Bettendorf, William P., Sept. 1, 1885, . . . . . References—Loughridge, 117,902. Aug. 8, 1871. Murphy, 47,780. May 16, 1865. Little, 273,746. March 13, 1883. Interference with application of James R. Little. Decision favorable to Bettendorf.	905 411	339,611 Zieger, William, April 6, 1886, . . . . . References—Frenier, 285,401. Sept. 25, 1883. 3,190. German.	909 412
325,893 Williams, Samuel T., Sept. 8, 1885, 905 411 References—Randall, 270,480. Jan. 9, 1883. Ferguson, 277,252. May 8, 1883. Scott & Frenier, 276,899. May 1, 1883.		339,712 Thomas, George W., April 13, 1886, . . . . . References—Marshall, 210,701. Dec. 10, 1878. Work, 246,650. Sept. 6, 1881.	909 412
328,280 Bowen, Ephraim N., Oct. 13, 1885, 905 411 No references.		341,462 Dunn, William W., May 11, 1886, 910 412 References—Bean, 265,480. Oct. 3, 1882.	
329,004 Bettendorf, William P., Oct. 27, 1885, . . . . . References—Packer, 300,392. June 17, 1884.	906 411	341,523 Timken, Henry, May 11, 1886, 910 412 References—Cummins, 307,021. Oct. 21, 1884.	
332,027 Weinstock, Henry B., Dec. 8, 1885, . . . . . References—Engelbach, 284,621. Sept. 11, 1883. Smith, 262,990. Aug. 22, 1882.	906 411	344,118 Klotz, Joseph, June 22, 1886, . . . . . References—Tice, 292,072. Jan. 15, 1884. Kester, 160,272. Oct. 26, 1875. Wilder, 205,161. June 18, 1878.	910 412
333,402 Fishwick, James, Dec. 29, 1885, 906 411 References—Howell, 303,853. Aug. 19, 1884. Cummins, 307,021. Oct. 21, 1884. Stoliker, 50,425. Oct. 10, 1865.		345,218 Dion, Peter, July 6, 1886, . . . . . References—Weinstock, 332,027. Dec. 8, 1885. Hale, April 2, 1835.	910 412
334,249 Little, James R., Jan. 12, 1886 906 411 References—Brown, 209,856. Nov. 12, 1878. Tegnander, 194,272. Aug. 14, 1847. Rowe, 4,946. Jan. 26, 1847. Dimmick, 143,813. Oct. 21, 1873.		347,040 Hoefer, Hermann, and Blechschmidt, Gustav, Aug. 10, 1886, . . . . . No references.	911 413
334,252 Little, James R., Jan. 12, 1886, 907 411 References—Dimmick, 143,813. Oct. 21, 1873. Interference with application of William P. Bettendorf. Decision favorable to Bettendorf.		347,845 Valentine, Waldo W., Aug. 24, 1886, . . . . . References—Marshall, 315,805. April 14, 1885. Stearns, 86,709. Feb. 9, 1869. Ham, 92,606 July 13, 1869. Williams, 306,450. Oct. 14, 1884.	911 413
334,301 Stahl, Harlow C., and Rosebaugh, John C., Jan. 12, 1886, . . . . . References—Huber, 303,285. Aug. 12, 1884. Smith, 298,632. May 13, 1884.	907 412	348,605 Wilson, Needham M., Sept. 7, 1886, 911 413 References—Wright, 299,897. June 3, 1884. 1,095 of 1870. English. Daleil, 175,943. April 11, 1876.	
334,829 Wallace, Albert E., Jan. 26, 1886, 907 412 References—Howell, 293,251. Feb. 12, 1884. Latt, 301,425. July 1, 1884.		349,433 Johnston, James L., Sept. 21, 1886, 912 413 References—Morris, 286,471. Oct. 9, 1883. Johnson, 273,548. March 6, 1883. Johnson, 113,171. March 28, 1871.	
335,964 Scheidler, Reinhard, Feb. 9, 1886, 908 412 References—Slimer, 81,545. Aug. 25, 1868. Holt, 179,732. Dec. 7, 1875. Bush, 190,873. Nov. 6, 1877. Thuenen, 205,318. June 25, 1878. Elwood et al., 299,120. May 27, 1884. Hinton, 143,282. Sept. 30, 1873. Packer, 300,392. June 17, 1884. 5,972 of 1830. English-h.		349,435 Johnston, James A., Sept. 21, 1886, 912 413 References—Seymour, 81,328. Sept. 1, 1868. House, 141,715. Aug. 12, 1873.	
		352,141 Macphail, James, Nov. 9, 1886, . . . . . References—Scott & Frenier, 276,899. May 1, 1883. Bean & Grant, 310,777. June 9, 1885. Stahl et al., 334,301. Jan. 12, 1886. Bean, 315,996. April 21, 1885. Lynch, 294,656. Feb. 26, 1884.	912 413
		352,832 Messmer, Alexander L. H., Nov. 16, 1886, . . . . . References—1,944 of 1879. English. Interference with the applications of Charles L. Word and Rudolph W. Donmoyer. Decision favorable to Messmer.	912 413

- | P. C.   | P. C.  |
|---|--|
| 353,030 Harris, Frank H., Nov. 23, 1886, 913 413<br>References—1,944 of 1879. English.<br>Interference with the application of Charles L. Work. Decision favorable to Harris.   | Righter, 121,663. Dec. 5, 1871.<br>Interference with application of M. McDowell. Decision favorable to McDowell.   |
| 353,744 Hall, Albert C., Dec. 7, 1886, . . . 913 414<br>No references.  | 362,142 Appleby, John F., May 3, 1887, 918 416<br>References—Frenier, 285,401. Sept. 25, 1883.<br>Elwood & Staagard, 299,120. May 27, 1884.<br>Little, 334,252. Jan. 12, 1886.<br>Packer, 300,392. June 17, 1884.  |
| 354,474 Hubbard, Fred. W., Dec. 14, 1886, . . . 913 414<br>References—Stoliker, 50,425. Oct. 10, 1865.<br>Barr, 292,617. Jan. 29, 1884.<br>Williams, 325,301. Sept. 1, 1885.<br>Williams, 339,082. March 30, 1886.  | 362,506 Hall, Albert C., and Bailey, Howard S., May 10, 1887, . . . . . 918 416<br>No references.  |
| 354,584 Reiner, Isaiah H., Dec. 21, 1886, 913 414<br>References—Perkins, 13,012. June 5, 1855.<br>House, 141,715. Aug. 12, 1873.<br>Cummins, 307,021. Oct. 21, 1884.  | 363,587 Canfield, Charles G., May 24, 1887, . . . . . 919 416<br>References—McGowan, 189,318. April 10, 1877.<br>994 of 1885. English.<br>Nathanson, 263,057. Aug. 22, 1882.   |
| 355,844 Schad, Barnhard, Jan. 4, 1887, . . . 914 414<br>References—Hill, 213,508. March 25, 1879.<br>Smith, 298,632. May 13, 1884.<br>Schad et al., 309,566. Dec. 23, 1884.   | 364,426 Maurino, Henry Q., June 7, 1887, 919 416<br>References—Ray, 126,742. May 14, 1887.<br>Simmons, 72,233. Dec. 17, 1876.<br>Turner, 158,758. Jan. 12, 1875.<br>3,959 of 1874. English.  |
| 355,700 Merrill, Anson P., Jan. 11, 1887, 914 414<br>References—Butler, 308,747. Dec. 2, 1884.<br>Hill, 213,508. March 25, 1879.<br>Tolles, 1,440. Dec. 27, 1839.   | 366,332 Macphail, James, and Needham, Franklin M., July 12, 1887, . . . . . 920 416<br>References—Bean & Grant, 319,777. June 9, 1885.<br>Bean, 315,999. April 21, 1885.<br>Carr, 319,452. June 9, 1885.<br>Hill, 213,508. March 25, 1879.<br>Stahl & Rosebaugh, 334,301. Jan. 12, 1886. |
| 356,383 Suratt, Ralph M., Jan. 18, 1887, 914 414<br>References—Minor & Ward, 75,947. March 24, 1868.<br>Smith, 298,632. May 13, 1884.   | 366,464 Dion, Peter, July 12, 1887, . . . . . 920 417<br>References—Utley, 305,253. Sept. 16, 1884.<br>Thomas, 266,400. Oct. 24, 1882.<br>Schember, 315,346. April 7, 1885.  |
| 356,643 Howell, George W., Jan. 25, 1887, 915 415<br>References—Williams, 305,727. Sept. 23, 1884.<br>Cummins, 307,021. Oct. 21, 1884.<br>Stoliker, 50,425. Oct. 10, 1865.<br>Fishwick, 333,402. Dec. 29, 1885.   | 366,620 Clouse, Joseph N., July 12, 1887, 920 417<br>References—Shaw, 166,151. July 27, 1875.<br>Gallup, 303,503. Aug. 12, 1884.   |
| 357,120 Ewing, Alvan B., Feb. 1, 1887, . . . 915 415<br>References—Lane, 278,438. May 29, 1883.<br>Harris, 206,442. July 30, 1878.<br>Deweese, 314,520. March 24, 1885.<br>Neff, 293,498. Feb. 12, 1884.<br>Wolf & Baltimore, 263,341. Nov. 28, 1882.<br>Harrison, 143,282. Sept. 30, 1873.<br>Rushner & Joyce, 325,278. Sept. 1, 1885.<br>Carr, 273,815. March 13, 1883. | 369,202 Nice, John E., Aug. 30, 1887, 920 417<br>References—Davis, 186,812. Jan. 30, 1877.<br>Miller & Wright, 137,017. March 18, 1873.<br>Vreeland, 92,915. July 20, 1869.<br>Lambert, 225,225. March 9, 1880.<br>Wharton, 189,162. April 3, 1877.                                      |
| 359,809 Palmer, Cncharles A. E. T., March 22, 1887, . . . . . 916 415<br>No references.   | 369,579 Barton, George A., Sept. 6, 1887, 921 417<br>References—Howell, 360,156. March 29, 1887.<br>Gendron, 261,222. July 18, 1882.   |
| 360,156 Howell, George W., March 29, 1887, . . . . . 917 415<br>References—Schember, 315,346. April 7, 1885.<br>Bean, 315,995. April 21, 1885.<br>Sattley, 321,758. July 7, 1885.<br>Williams, 305,727. Sept. 23, 1884.   | 369,641 Howell, George W., Sept. 6, 1887, 921 417<br>No references.  |
| 360,873 Furse, John P., April 12, 1887, . . . 917 415<br>References—Gerbracht, 314,328. March 24, 1885.<br>Kruger, 168,647. Oct. 11, 1875.<br>Seel, 332,757. Dec. 22, 1885.<br>Lindsay, 185,555. Dec. 19, 1876.<br>Weich & Jeffrys, 168,601. Oct. 11, 1875.<br>Poolman & Marks, 294,668. March 4, 1884.   | 369,850 Harris, Frank H., Sept. 13, 1887, 921 417<br>References—Harris, 353,060. Nov. 23, 1886.<br>Messmer, 352,832. Nov. 16, 1886.<br>Grant, 320,930. June 30, 1885.<br>1,944 of 1879. English.   |
| 361,027 Schoening, Charles J., April 12, 1887, . . . . . 917 416<br>References—Hövet, 313,209. March 3, 1885.   | 369,874 Packer, John F., Sept. 13, 1887, 921 417<br>References—Williams, 300,293. June 10, 1884.<br>Grant, 320,930. June 30, 1885.<br>Packer, 323,441. Aug. 4, 1885.<br>1,163 of 1874. English.  |
| 361,637 Little, James R., April 19, 1887, 918 416<br>References—Smith, 109,465. Nov. 22, 1870.<br>Bedlam & Southwick, 269,373. Dec. 19, 1882.<br>Hodges, 160,268. March 2, 1875.<br>Willis & Linsley, 340,845. April 27, 1886.<br>Rowe, 4,946. Jan. 26, 1847.<br>10,090 of 1854. English.<br>3,169 of 1808. "   | 375,056 Dunstedter, Jacob, Dec. 20, 1887, 922 417<br>References—Josef, 277,904. May 22, 1883.<br>Thomson, 96,635. Nov. 9, 1886.  |
| 375,426 Ricard, Arthur P., Dec. 27, 1887, 922 418<br>References—Work, 246,650. Sept. 6, 1881.<br>Williams, 305,727. Sept. 23, 1884.<br>Bean & Grant, 319,777. June 9, 1885.<br>Gendron, 261,222. July 18, 1882.   | 375,940 Knight, Walter, Jan. 3, 1888, . . . 923 418<br>References—Carpenter, 250,644. Dec. 13, 1881.<br>Woodward, 291,457. Jan. 1, 1884.<br>Saladee, 148,505. March 10, 1874.<br>Simmons, 72,233. Dec. 17, 1867.   |

- | P. C.   | P. C.  |
|---|--|
| 377,102 Gorman, Charles R., and Fletcher, Charles J., Jan. 31, 1888, . . . . . 923 418  | 386,326 Little, James R., July 17, 1888, 928 420   |
| References—6,845 of 1884. English.<br>Phelps, 265,038. July 16, 1878.<br>Forrester, 105,993. Nov. 8, 1870.  | References—Little, 361,637. April 19, 1887.<br>McDowell, 265,124. Sept. 26, 1882.  |
| 377,579 Savene, John W., Feb. 7, 1888, . . 924 418  | 386,332 McDowell, Malcolm, July 17, 1888, . . . . . 929 420  |
| References—Harris, 353,060. Nov. 23, 1886.<br>Barton, 269,579. Sept. 6, 1887.<br>5,106 of 1881. English.  | References—Shaw, 166,151. July 27, 1875.<br>McDowell, 265,124. Sept. 26, 1882.<br>Interference with application of James R. Little. Decision favorable to McDowell.  |
| 378,961 Hughes, George M., March 6, 1888, 924 418   | 387,685 Lane, Henry G., Aug. 14, 1888, 929 420   |
| References—Crowell, 244,742. July 26, 1881.<br>Gendron, 150,021. April 21, 1874.<br>Sattley, 321,758. July 7, 1885.   | References—Crosby, 170,994. Dec. 14, 1885.<br>Ball, 119,811. Oct. 10, 1871.  |
| 379,250 Sheridan, William, March 13, 1888, 924 418  | 388,068 Overman, Albert H., Aug. 21, 1888, . . . . . 929 420   |
| References—Gallup, 303,503. Aug. 12, 1884.<br>Gendron, 261,222. July 18, 1882.  | References—Sanford, 183,647. Oct. 24, 1876.<br>Prentiss, 04,794. May 14, 1867.<br>Warwick, 289,733. Dec. 4, 1883.<br>Howell, 293,251. Feb. 12, 1884.<br>Bryant, 104,824. June 28, 1870.<br>Vreeland, 92,915. July 20, 1869.<br>Powers, 298,500. May 13, 1884.<br>Work, 246,650. Sept. 6, 1881.<br>891 of 1881. English.<br>15,122 of 1884. "<br>3,959 of 1874. "<br>Howell, 293,251. Feb. 12, 1884.<br>Interference with application of William S. Kelley. Decision favorable to Kelley. |
| 379,841 Whitmore, George E., March 20, 1888, . . . . . 925 418  | 388,455 Sharbouneau, Eli, Aug. 28, 1888, 930 420   |
| References—Bean, 315,995. April 21, 1885.<br>Bean & Grant, 319,777. June 9, 1885  | No references.   |
| 380,012 Bailey, Howard S., March 27, 1888, . . . . . 925 418  | 389,469 Hawn, Socrates A., Sept. 11, 1888, 930 420   |
| References—Sheffield, 279,449. June 12, 1883.<br>Crosby, 170,994. Dec. 14, 1875.<br>Bean, 265,486. Oct. 3, 1882.<br>Miller, 320,930. June 30, 1885.<br>Smith, 297,632. May 13, 1884.  | References—Howell, 303,853. Aug. 19, 1884.<br>Williams, 305,769. Sept. 30, 1884.   |
| 380,358 Smith, Willard A., and Weston, Irving A., April 3, 1888, . . . . . 926 419  | 390,661 Forsyth, William S., Oct. 9, 1888, 930 421   |
| References—Howell, 293,251. Feb. 12, 1884.<br>Howell, 316,305. April 21, 1885.<br>Howell, 356,643. Jan. 25, 1887.<br>Clair, 338,484. March 23, 1886.<br>Wallace, 334,829. Jan. 26, 1886.<br>Williams, 325,301. Sept. 1, 1885. | References—Britton, 135,764. Feb. 11, 1873.<br>Farrell, 32,163. April 23, 1861.  |
| 381,509 Puffer, Stephen, April 17, 1888, 926 419  | 390,682 Kinney, Edwin R., Oct. 9, 1888, 931 421  |
| No references.  | References—Bean & Grant, 319,777. June 9, 1885.<br>Sheridan, 379,250. March 13, 1888.<br>Schumler, 315,346. April 7, 1885.   |
| 381,722 Reade, Charles A., April 24, 1888, 927 419  | 390,977 Kramer, Camillo, Oct. 9, 1888, . . . . . 931 421   |
| References—Miller, 247,775. Oct. 4, 1881.<br>McDowell, 265,124. Sept. 26, 1882.<br>Sieben & Jacuzzi, 351,661. Oct. 26, 1886<br>Howe, 286,826. July 10, 1883.<br>Simon & Contant, 348,787. Sept. 7, 1886.                      | References—Hornung, 191,145. May 22, 1877.<br>Williams, 325,893. Sept. 8, 1885.<br>Carmont, 364,989. June 14, 1887.<br>Miran, 235,552. Dec. 14, 1880.  |
| 382,356 Gendron, Peter, May 8, 1888, . . . . . 927 419  | 391,915 Phillips, Ambrose A., Oct. 30, 1888, . . . . . 931 421   |
| No references.  | No references.   |
| 382,899 Pridmore, Henry E., May 15, 1888, 927 419   | 391,987 Straight, Clarence H., Oct. 30, 1888, 931 421  |
| References—Davis, 151,360. May 26, 1874.<br>Davis, 148,422. March 10, 1874.<br>Beebe, March 12, 1834.<br>Neft, 239,976. April 12, 1881.<br>Gendron, 261,222. July 18, 1882.<br>Carr, 319,452. June 9, 1885.                   | References—Cummins, 307,021. Oct. 21, 1884.<br>Ferguson, 277,252. May 8, 1883.<br>Tice, 292,072. Jan. 15, 1884.  |
| 383,645 Kenndey, Samuel V., May 29, 1888, . . . . . 927 419   | 392,234 Smith, William W., Nov. 6, 1888, 932 421   |
| References—McGowan, 189,318. April 10, 1877.<br>Hill, 213,508. March 25, 1879.<br>Briggs, 333,593. Jan. 5, 1886.<br>Latia, 15,207. July 8, 1886.<br>Davis, 186,812. Jan. 30, 1877.<br>Huber, 303,285. Aug. 12, 1884.          | References—Ewing, 357,120. Feb. 1, 1887.<br>Munson, 162,853. May 10, 1870.<br>Lane, 278,438. May 29, 1883.   |
| 384,135 Domkel, Lloyd H., June 5, 1888, 928 420   | 392,748 Page, Thomas S., Nov. 13, 1888, 932 421  |
| References—Bowman, 83,245. Oct. 20, 1868.<br>Lane, 278,438. May 29, 1883.   | References—Frener, 313,931. March 17, 1885.  |
| 384,650 Stribling, John V., June 19, 1888, 928 420  | 392,749 Page, Thomas S., Nov. 13, 1888, 932 422  |
| References—Shaw, 166,151. July 27, 1875.<br>Stolker, 50,425. Oct. 10, 1865.   | No references.   |
| 384,759 Hanks, Austin J., June 19, 1888, 928 420  | 392,756 Rice, Henry M., and O'Day, John, Nov. 13, 1888, . . . . . 932 422  |
| References—Gallup, 303,503. Aug. 12, 1884.  | References—Wright, 150,583. March 19, 1878.<br>Morrison, 358,687. March 1, 1887.<br>Davis, 251,840. Jan. 3, 1882.<br>Johnson, 273,548. March 6, 1883.<br>Ives, 123,480. Feb. 6, 1872.<br>Poirier & Gimmon, 153,275. July 21, 1874.<br>Smith, 129,760. July 23, 1872.<br>Gardner 148,880. March 24, 1874.   |

- | <i>P. C.</i>  | <i>P. C.</i>   |
|---|--|
| 393,218 Cummins, Patrick H., Nov. 20,<br>1888, . . . . . 933 422  | 401,563 Keith, Alpheus, April 16, 1889, 937 424  |
| References—Ferguson, 277,252. May 8, 1883.<br>Shaw, 166,151. July 27, 1875.<br>Woodward, 291,457. Jan. 1, 1884.<br>Howell, 293,251. Feb. 12, 1884.<br>3,118 of 1877. English.   | References—Carr, 300,046. June 10, 1884.<br>Kinney, 390,682. Oct. 9, 1888.   |
| 394,703 Kreps, John W., Dec. 18, 1888, . . 933 422  | 401,965 Nipp, John, Jr., April 23, 1889, 937 424   |
| References—Kellar, 161,066. April 13, 1875.<br>Slutz, 156,240. Oct. 27, 1874.<br>Seymour, 81,828. Sept. 1, 1868.<br>House, 141,715. Aug. 12, 1873.  | References—Stoliker, 50,425. Oct. 10, 1865.<br>Gillup, 303,503. Aug. 12, 1884.<br>Williams, 305,769. Sept. 30, 1884.<br>Howell, 356,643. Jan. 25, 1887.  |
| 394,718 Olsen, Gunder, Dec. 18, 1888, . . 933 422   | 402,286 Taylor, Charles, April 30, 1889, 937 424   |
| References—Packer, 323,441. Aug. 4, 1885.<br>Sperry & Vandenburgh, 263,982. Sept. 5,<br>1882.<br>Smith, 39,177. July 7, 1863.<br>Seymour, 81,828. Sept. 1, 1868.<br>Williams, 301,293. June 10, 1884.   | References—Alcott, 101,205. March 29, 1870.  |
| 394,885 Seymour, Grant, Dec. 18, 1888, . . 934 422  | 404,611 Ensign, Frank H., June 4, 1889, 938 424  |
| References—Crowell, 244,742. July 26, 1881.<br>Hughes, 278,961. March 6, 1888.<br>Tice, 292,072. Jan. 15, 1884.<br>Frenier, 313,931. March 17, 1885.<br>Brown, 209,856. Nov. 12, 1878.<br>Harris, 206,442. July 30, 1878.<br>Klotz, 344,118. June 22, 1886. | No references.   |
| 395,523 Taylor, Charles, Jan. 1, 1889, . . 934 423  | 404,657 Root, Miles C., June 4, 1889, . . 938 424  |
| References—Burns, 182,555. Sept. 26, 1876.<br>Brewster, 84,164. Nov. 17, 1868.  | No references.   |
| 396,262 Boland, Hamilton, Jan. 15, 1889, 934 423  | 404,907 Harris, Frank H., June 11, 1889, 938 425   |
| References—2,524 of 1853. English.<br>Williams, 337,223. March 2, 1886.   | References—DeGray, 306,813. Oct. 21, 1884.<br>Devey, 264,637. Sept. 19, 1882.<br>Gendron, 322,277. July 14, 1885.<br>Weimer, 172,807. Jan. 25, 1876.<br>5,971 of 1830. English.  |
| 396,782 Thayer, Horace N., Jan. 29, 1889, 934 423   | 405,093 Howell, George W., June 11, 1889, 938 425  |
| No references.  | References—Fishwick, 333,402. Dec. 29, 1885.   |
| 396,783 Thayer, Horace N., Jan. 29, 1889, 935 423   | 405,327 Savene, John W., June 18, 1889, 939 425  |
| No references.  | References—Straight, 301,957. Oct. 30, 1888.<br>Ferguson, 277,252. May 8, 1883.  |
| 396,872 Hicks, Horatio F., Jan. 29, 1889, 935 423   | 406,705 Crecelius, Louis J., July 9, 1889, 939 425   |
| References—5,433 of 1883. English.<br>988 of 1881.<br>Reed, 94,839. Sept. 14, 1869.<br>Johnson, 125,053. March 26, 1872.  | References—Woodruff, 130,172. Aug. 6, 1872.<br>Bill, 128,354. June 25, 1872.<br>Cummings, 87,913. March 16, 1869.<br>3,618 of 1883. English.<br>Scheidler, 335,964. Feb. 9, 1886.<br>Phillip, 391,915. Oct. 30, 1888.  |
| 396,991 Dommoyer, Rudolph W., Jan. 29,<br>1889, . . . . . 935 423   | 407,266 West, Derrick S., July 16, 1889, 939 425   |
| References—Packer, 300,392. June 17, 1884.  | No references.   |
| 397,078 Haslup, William, Jan. 29, 1889, 935 423   | 407,769 Bean, Roscoe, July 30, 1889, . . 939 425   |
| References—Bar, 151,073. May 19, 1874.<br>Wilson, 359,945. March 8, 1887.<br>Howell, 356,643. Jan. 25, 1887.  | References—Bean & Grant, 319,777. June 9, 1885.<br>Frey et al., 53,970. April 17, 1866.<br>Whytock, 33,620. Oct. 29, 1861.   |
| 398,403 James, Campbell E., Feb. 26, 1889, 936 423  | 409,475 Little, James R., Aug. 20, 1889, 940 425   |
| References—Brown, 130,892. Aug. 27, 1872.<br>Barrett, 124,778. March 19, 1872.  | No references.   |
| 399,389 Dunn, William H. and Harriette<br>N., March 12, 1889, . . . . . 936 424   | 410,645 Mead, Samuel C., Sept. 10, 1889, 940 425   |
| References—Traub, 175,209. March 21, 1876.  | References—Ball, 120,022. Oct. 17, 1871.<br>2,226 of 1870. English.  |
| 399,475 Benster, Emory M., March 12,<br>1889, . . . . . 936 424   | 413,760 Marsh, Walter F., Oct. 29, 1889, 940 425   |
| References—Vreeland, 284,990. Sept. 11, 1883.<br>Marshall, 315,805. April 14, 1885.<br>Valentine, 347,845. Aug. 24, 1886.<br>Hill, 213,508. March 25, 1879.<br>Butler, 368,747. Dec. 2, 1884.   | References—Stoliker, 50,425. Oct. 10, 1865.<br>Gendron, 361,222. July 18, 1882.<br>Freier, 276,899. May 1, 1883.<br>Newlin, 234,166. Nov. 9, 1880.<br>Howell, 293,251. Feb. 12, 1884.<br>Cummings, 87,913. March 16, 1869.<br>Williams, 305,727. Sept. 23, 1884.<br>Bufer, 381,509. April 17, 1888.<br>Shaw, 166,151. July 27, 1875. |
| 401,551 Gillies, Alexander, April 16, 1889, 937 424   | 413,858 Libbey, Hosea W., Oct. 29, 1889, 940 426   |
| References—Cornwall, 156,281. Oct. 27, 1874.<br>Rembert, 258,474. May 23, 1882.<br>Hubbard, 117,077. July 18, 1871.<br>Sieben, 351,661. Oct. 26, 1886.  | References—Dudley & Jones, 233,219. Oct. 12, 1880.<br>Johnson, 300,264. June 10, 1884.<br>Clark, 269,919. Jan. 2, 1883.<br>Smith, 94,521. Sept. 7, 1869.<br>Coombs, 63,705. April 9, 1867.<br>Lane, 52,422. Feb. 6, 1866.<br>193 of 1886. English.   |
| 413,949 Mark, Charles E., Oct. 29, 1889, 941 426  |  |
| References—Hughes, 378,961. March 6, 1880.<br>Harris, 369,850. Sept. 13, 1887.<br>Rowe, 4,946. Jan. 26, 1847.   |  |

<i>P. C.</i>	<i>P. C.</i>
414,369 Bettendorf, William P., Nov. 5, 1889, . . . . . 941 426	422,407 Harris, Ernest A., March 4, 1890, 945 428 No references.
References—Hill, 213,508. March 25, 1879. Butler, 308,747. Dec. 2, 1884. Kennedy, 358,545. March 29, 1888.	425,095 Ewing, Rufus L., April 8, 1890, 945 428 References—Oliphant, 79,496. June 30, 1868. Gore, 142,998. Aug. 26, 1873. Neff, 293,408. Feb. 12, 1884. Luppen, 303,229. Aug. 5, 1884. Behringer, 358,531. March 1, 1887.
414,782 Southard, Frank E., Nov. 12, 1889, 941 426	425,240 Newhouse, Frederick, April 8, 1890, . . . . . 946 428 References—Bean, 315,995. April 21, 1885. Carr, 300,046. June 10, 1884. Carr, 319,452. June 9, 1885. Bean & Grant, 319,777. June 9, 1885.
References—Gendron, 261,222. July 18, 1882. Savene, 404,327. June 18, 1889.	425,506 Hall, Albert C., April 15, 1890, 946 428 References—Coombs, 63,705. April 9, 1867. Everson, 409,944. Aug. 27, 1889. Latta, 455,425. June 15, 1880. Bailey, 350,012. March 27, 1889. Ayre, 70,651. Nov. 12, 1867. Munson, 219,500. Sept. 9, 1879. Mott, 289,680. Dec. 4, 1883.
415,117 Morsman, John A., and Higby, Edward H., Nov. 12, 1889, . . . . . 941 426	425,612 Johnson, Thomas, Hanson, Albert and Whiteley, Nathan, April 15, 1890, 946 428 References—Landis, 29,288. July 24, 1860. Schlosmeier & Hausknecht, 409,758. Aug. 27, 1880. Perkins, 255,886. April 4, 1882. Perkins, 279,275. Jan. 12, 1883. Bailey, 315,379. April 7, 1885. Borchardt, 203,582. May 14, 1878.
415,787 Oliver, Thomas P., Nov. 26, 1889, 942 426	425,898 Morsman, John A., and Higby, Edward, April 15, 1890, . . . . . 947 428 References—Ewing, 357,120. Feb. 1, 1887. Dorman, (K.) 7,186. June 29, 1876. Fancier, 130,117. Aug. 6, 1872.
References—Lamb & Root, 7,874. Jan. 1, 1851. Reed, 94,839. Sept. 14, 1869. 21,621. German. Crowell, 244,742. July 26, 1881. Clair, 338,484. March 23, 1886. Valentine, 222,611. Dec. 16, 1879.	425,934 Donkel, Lloyd H., April 15, 1890, . . . . . 947 429 References—Munson, 219,500. Sept. 9, 1879. Canfield, 363,587. May 24, 1887. Ferguson, 277,252. May 8, 1883. Donkel, 384,135. June 5, 1888. Crutchfield, 402,723. May 7, 1889. Ayer, 70,651. Nov. 12, 1867. Hanson, 420,061. Jan. 28, 1890.
416,095 DeBogory, Progore P., Nov. 26, 1889, . . . . . 942 426	425,993 De Mars, Magloir, April 22, 1890, 947 429 No references.
References—Hicks, 306,872. Jan. 29, 1880. Lamb & Root, 7,874. Jan. 1, 1851. Lane, 52,422. Feb. 6, 1866. Nevison, 74,579. Feb. 10, 1868.	426,631 Young, William F., April 29, 1890, . . . . . 948 429 References—Munson, 102,853. May 10, 1870. Ensign, 404,611. June 4, 1889. Packer, 323,441. Aug. 4, 1885.
416,190 Terry, Ary P., Dec. 3, 1889, . . . . . 942 426	427,057 Denau, Peter, Sr., May 6, 1890, 948 429 References—Hill, 210,505. July 1, 1879. Delkescamp, 268,635. Dec. 5, 1882. Cooper, 209,381. Oct. 29, 1878. Applewhite, 237,718. Feb. 15, 1881. Oliphant, 79,496. June 30, 1868. Dorman, 57,100. Aug. 10, 1866. Lewis, 100,046. Oct. 25, 1870.
References—Smith, 298,632. May 13, 1884. Rowe, 4,946. Jan. 26, 1847. Coombs, 63,705. April 9, 1867.	427,301 Denning, Charles G., May 6, 1890, 948 429 References—Patterson, 9,926. Aug. 9, 1853. Goettel, 303,383. May 24, 1887. Haynes, 184,242. Nov. 14, 1876. Baker, 391,833. Oct. 30, 1888.
417,977 Bolick, Jerome, Dec. 24, 1889, . . . . . 942 427	428,176 Nelson, Robert L., May 20, 1890, 948 429 References—Evans, 119,339. Sept. 26, 1871. Johnson, 86,077. Jan. 10, 1890.
References—Contiss, 260,744. July 11, 1882.	428,313 Messmer, Alexander L. H., and Luthman, Charles H., May 20, 1890, 949 429 References—Schember, 315,346. April 7, 1885.
418,253 Volk, George, Dec. 31, 1889, . . . . . 943 427	428,313 Messmer, Alexander L. H., and Luthman, Charles H., May 20, 1890, 949 429 References—Schember, 315,346. April 7, 1885.
References—Kinney, 390,682. Oct. 9, 1888.	
418,904 West, Harley E., Jan. 7, 1890, . . . . . 943 427	
References—Harris, 206,442. July 30, 1878. Schember, 315,346. April 7, 1885. Dion, 366,464. July 12, 1887.	
419,488 Arnold, Daniel J. C., and Post, Charles B., Jan. 14, 1890, . . . . . 943 427	
References—Dundsteler, 375,056. Dec. 20, 1887. Coe, 123,809. Feb. 20, 1872.	
419,937 Gendron, Peter, Jan. 21, 1890, 943 427	
References—Schember, 315,346. April 7, 1885. Bean & Grant, 319,777. June 9, 1885. Bean, 315,995. April 21, 1885. Kinney, 390,682. Oct. 9, 1888. Gendron, 261,222. July 18, 1882. Howell, 303,853. Aug. 19, 1884. Gendron, 382,356. May 8, 1888.	
420,061 Hanson, Olaius, Jan. 28, 1890, . . . . . 944 427	
References—Valiquet, 313,460. March 3, 1885.	
420,343 Howell, George W., Jan. 28, 1890, 944 427	
References—Howell, 360,156. March 29, 1887. Barton, 365,597. Sept. 6, 1887.	
420,927 Burgess, William D., and Munz, Theodore C., Feb. 11, 1890, . . . . . 944 427	
References—Munson, 219,500. Sept. 9, 1879. Lane, 278,438. May 29, 1883. Davis, 170,996. Dec. 14, 1875. Davis, 251,840. Jan. 3, 1882. Valentine, 222,611. Dec. 16, 1879. Godden, 59,385. Nov. 6, 1866. 10,717 of 1845. English.	
421,013 Peare, George R., Feb. 11, 1890, 945 428	
References—Cummings, 28,631. June 5, 1860. Anansen, 250,701. Dec. 13, 1881.	

	P.	C.		P.	C.
430,687 Reinhold, Hermann A., June 24, 1890, . . . . .	949	430	442,456 Post, Charles B., Dec. 9, 1890, 954 432		
References—Jefferson, 243,569. June 28, 1881. Smith, 359,745. March 22, 1887. Oreut, 301,262. July 1, 1884. Schoenig, 361,027. April 12, 1887. Fielding & Bryant, 249,166. Nov. 8, 1881. Adams, 299,711. June 3, 1884. Briggs, 333,593. Jan. 5, 1886. 27,678. Oct. 4, 1883. German.			References—Williams, 306,450. Oct. 14, 1884. Bensler, 399,477. March 12, 1889. Cummins, 393,218. Nov. 20, 1888. 13,455 of 1885. English. Warwick, 289,733. Dec. 4, 1883.		
431,896 Horton, Numon N., July 8, 1890, 949 430			444,086 Buckton, Albert R., Jan. 6, 1891, 955 432		
References—Frenier, 285,401. Sept. 25, 1883. Overman, 388,668. Aug. 21, 1888.			No references.		
431,927 Young, John S., July 8, 1890, . . . . .	949	430	444,410 Tannewitz, Edward, Jan. 6, 1891, 955 432		
No references.			No references.		
432,097 Tozer, James H. and William, July 15, 1890, . . . . .	950	430	444,432 Graham, William H., and Mc- Donald, George R., Jan. 13, 1891, 956 432		
References—Gibson, 381,834. April 24, 1888. Libbey, 73,821. Jan. 28, 1888. Johnson et al., 425,612. April 15, 1890.			References—Miller & Honermann, 422,245. Feb. 25, 1890. Paul, 273,351. Feb. 12, 1884.		
432,848 Wood, John, July 22, 1890, . . . . .	950	430	444,519 Briggs, Franz S., Jan. 13, 1891, 956 432		
References—Cummings, 87,913. March 16, 1869.			References—Hodges, 322,721. July 21, 1885. Miller & Honermann, 422,245. Feb. 25, 1890. 16,341 of 1888. English.		
433,193 Best, Daniels, July 29, 1890, . . . . .	951	430	447,797 Snoddy, Abner, March 10, 1891, 957 432		
References—Dinkel, 384,135. June 5, 1888. Lane, 278,438. May 29, 1883.			References—Shaw, 166,151. July 27, 1875. Frenier, 290,224. Dec. 18, 1883. Frazier, 192,250. June 19, 1877.		
433,285 Hanks, Austin J., July 29, 1890, 951 430			449,205 Clouse, Joseph N., March 31, 1891, 957 433		
No references.			References—Southard, 414,782. Nov. 12, 1889. Gendron, 382,356. May 8, 1888.		
433,621 Hannes, George, Aug. 5, 1890, . . . . .	952	430	450,144 Denneau, Peter, Sr., April 14, 1891, 957 433		
References—Ensign, 404,611. June 4, 1886. Carr, 300,040. June 10, 1884. Newhouse, 425,240. April 8, 1890. Schemer, 315,346. April 7, 1885.			References—Latta, 322,733. July 21, 1885. Warwick, 399,453. March 12, 1889.		
434,041 Carpentier, Arsene, Aug. 12, 1890, 952 431			450,540 Trusty, Joseph, April 14, 1891, 958 433		
References—Howell, 303,853. Aug. 19, 1884. Howell, 293,251. July 12, 1884. Cummins 307,021. Oct. 21, 1884.			References—O'Brien, 388,907. Sept. 4, 1888. 8,347 of 1886. English.		
434,146 Geniron, Peter, Aug. 12, 1890, . . . . .	952	431	451,858 Gross, John H., May 5, 1891, . . . . .	958	433
References—Williams, 300,293. June 10, 1884. Blackham, 311,803. Feb. 3, 1885. Kried, 375,426. Dec. 27, 1887.			References—8,917 of 1886. English. 5,538 of 1882. “ 6,790 of 1835. “ 988 of 1881. “ 6,027 of 1830. “		
435,358 Hubbard, Arthur O., Aug. 26, 1890, 952 431			452,046 Mather, Alexander C., May 12, 1891, . . . . .	958	433
References—Clair, 338,484. March 23, 1886.			References—Bean, 315,995. April 21, 1885. Cummins, 307,021. Oct. 21, 1884. Shaw, 166,151. July 27, 1875. Williams, 350,772. Sept. 30, 1884. Williams, 300,293. June 10, 1884.		
435,997 Galt, Thomas A. Sept. 9, 1890, 953 431			452,047 Mather, Alexander C., May 12, 1891, . . . . .	958	433
References—Hemelright & Stone, 321,219. June 30, 1885. Gerbracht, 376,501. Jan. 17, 1888.			References—Gendron, 382,356. May 8, 1888. Smith, 197,421. Nov. 20, 1877.		
437,826 Welch, Roy W., Oct. 7, 1890, . . . . .	953	431	452,840 Hall, Orlando C., and Rasmus- sen, Einer, May 26, 1891, . . . . .	959	433
References—Curren, 200,856. March 5, 1878. Richmond, 263,962. Sept. 5, 1882. Lee, 39,581. Aug. 18, 1863. 10,502 of 1888. English.			References—Vancain, 408,056. July 30, 1889.		
439,035 McMahon, James, Oct. 21, 1890, 953 431			453,215 Severin, Julius, June 2, 1891, . . . . .	959	433
References—Butler, 308,747. Dec. 2, 1884. Dion, 366,464. July 12, 1887.			References—Tegnander, 194,272. Aug. 14, 1877. Lane, 278,665. May 29, 1883. Burgess, 334,163. Jan. 12, 1886. Baker, 32,742. July 9, 1861. Waring, 1,640. June 17, 1840. Hall & Bailey, 362,506. May 10, 1887.		
439,188 Reynolds, Charles J., Oct. 28, 1890, 953 431			453,251 Terry, Ary P., June 2, 1891, . . . . .	959	434
No references.			References—Bissell, 260,474. June 27, 1882. Terry, 416,190. Dec. 3, 1889. Schad, 355,344. Jan. 4, 1887.		
439,408 Lake, Ezra B., Oct. 28, 1890, . . . . .	954	431			
References—Baker, 391,833. Oct. 30, 1888.					
442,043 Haslup, William, Dec. 2, 1890, 954 431					
References—Murphy, 47,780. May 16, 1865. Schrapen, 303,545. Aug. 12, 1884.					
442,079 McLean, Robert, Dec. 2, 1890, 954 431					
References—Mason, 216,524. June 17, 1879. Darling, 11,521. Aug. 15, 1854. Beal, 351,847. Nov. 2, 1886. Howland, 213,425. March 18, 1879.					

Harris, 206,442. July 30, 1878.  
Vreeland, 172,213. Jan. 11, 1876.  
Howell, 187,859. Feb. 27, 1877.  
1,379 of 1868. English.

454,315 West, Derrick S., June 16, 1891, 960 434  
References—Soule & Manuel, 241,244. May 10, 1881.

560 of 1868. English.

2,894 of 1876. "

Ramsay, 166,741. May 14, 1872.

457,494 Latta, Emmet G., Aug. 11, 1891, 960 434  
References—Reynolds, 439,188. Oct. 28, 1890.

Gendron, 434,146. Aug. 12, 1890.

Domoyer, 396,991. Jan. 29, 1889.

457,861 Bretz, Jacob S., Aug. 18, 1891, . 960 434  
References—Palmer, 359,809. March 22, 1887.

Bowen, 328,280. Oct. 13, 1885.

Butler, 308,747. Dec. 2, 1884.

Smith, 359,745. March 22, 1887.

458,182 Merrifield, Stephen, Aug. 25, 1891, 961 434  
References—Conger, 388,763. Aug. 28, 1888.

Burbank, 352,989. Nov. 23, 1886.

458,573 Gedge, Burton H., Sept. 1, 1891, 961 434  
No references.

458,736 Martin, John, Sept. 1, 1891, . 961 434  
References—Cohenno, 413,709. Oct. 29, 1889.

Iseil, 393,277. Dec. 25, 1888.

Forman, 409,677. Aug. 27, 1889.

Sel, 332,757. Dec. 22, 1883.

Ellis, 410,963. Sept. 10, 1889.

Rousseau, 416,750. Dec. 10, 1889.

Bornemann, 450,362. April 14, 1891.

458,992 Allen, William H., Sept. 8, 1891, 962 435  
No references.

459,130 Barlow, Wilson H., Sept. 8, 1891, 962 435  
References—Tinken, 341,523. May 11, 1886.

Gües, 117,578. Aug. 8, 1871.

Harris, 405,346. May 14, 1889.

Bradley, 324,218. Aug. 11, 1885.

Corris, 140,234. Jan. 6, 1874.

Withey, 149,669. April 14, 1874.

464,729 Heartley, George W., Dec. 8, 1891, 962 435  
References—Gendron, 419,937. Jan. 21, 1890.

Tannevitz, 444,410. Jan. 6, 1891.

Kinney, 390,682. Oct. 9, 1888.

465,546 Tompkins, Ira, Dec. 22, 1891, . 962 435  
No references.

465,692 Children, Edwin, Dec. 22, 1891, 963 435  
References—Miller & Ellinwood, 276,450. April 24,

1883.

Brown, 111,312. Jan. 31, 1871.

Nevison, 74,579. Feb. 18, 1868.

### Fine Arts, Theater Appliances.

288,413 Elliott, James B., Nov. 13, 1883, 1047 303  
References—Brown's Mechanical Movements, Figs. 58

and 59.

288,414 Elliott, James B., Nov. 13, 1883, 1047 303  
References—Wilson, 92, 413. July 6, 1869.

Owens, 223,295. Jan. 6, 1880.

455,288 Knell, James W., June 30, 1891, 1047 303  
References—Barnard, 422,362. March 4, 1890.

Interference with patent to Barnard

March 4, 1890 422,362. Decision favorable

to Knell.

465,044 Jefferson, Charles B., Dec. 15,  
1891, . . . . . 1047 303  
References—McGlennen, 187,884. Feb. 27, 1877.

Krumbacher, 455,546. July 18, 1891.

### Railroad Elevated.

376,829 Wood, William P., Jan. 24, 1888, 984 309  
References—Berger, 307,425. Nov. 4, 1884.

Montgomery, 46,482. Feb. 21, 1865.

416,220 Grinnell, Amos L., Dec. 3, 1889, 984 309  
References—Hyde, 99,679. Feb. 8, 1870.

Wood, 376,829. Jan. 24, 1888.

Westerlund, 358,517. March 1, 1887.

Pierson, 220,492. Oct. 14, 1879.

450,926 Bottorff, Andrew J., April 21,  
1891, . . . . . 985 309  
No references.

461,102 Gerber, Jean B., Oct. 13, 1891, . 985 309  
No references.

### Tires.

Rogers, James H., Feb. 17, 1836, . . . . . 986 361

No references.

5,104 Thomson, Robert W., May 8, 1847, 986 361  
No references.

11,446 Souther, George, Aug. 1, 1854, . . . . . 987 361  
No references.

15,214 Ashe, William A., July 1, 1856, . . . . . 987 361  
References—Losh, Aug. 31, 1830.

Rogers, J. H., Feb. 17, 1836.

Stimpson, Oct. 23, 1834.

"Milling Mechanics' Magazine," vol. 46,

pages 2 to 5.

33,809 Woodbury, Seth D., Nov. 26, 1861, 988 361  
References—Crutchett, James. (Rejected case.) Filed

Oct. 1853.

Klinck & Sayre. (Rejected case.) Filed

Dec. 23, 1854.

Dunn, Thomas, 1848. "Civil Engineer  
and Architects' Journal," vol. 11, page

169.

Wharton, 1851. "Artisan," vol. 9, page 94.

Davis, 1854. "Practical Mechanics' Jour-

nal," vol. 6, page 166.

41,940 Pratt, E. L., and Thompson, John  
B., March 15, 1864, . . . . . 988 361  
References—Woodbury, 33,809. Nov. 26, 1861.

Sawyer, John A. J. (Rejected case.) Filed

June 27, 1863.

Newton, R. B. (Rejected case.) Filed

Oct. 31, 1855.

Klinck & Sayre. (Rejected case.) Filed

Dec. 23, 1854.

Jones, S. R. (Rejected case.) Filed Sept.  
25, 1857.

61,282 Torrey, E. S., Jan. 15, 1867, . . . . . 988 361  
References—Greenwood, J. Jr. (Rejected case.) Filed

May 27, 1856.

Young, J. (Rejected case.) Filed June

16, 1855.

Toler & Best. (Rejected case.) Filed

Nov. 13, 1848.

Johnson, H. & J. (Rejected case.) Filed

Sept. 7, 1843.

84,878 Greene, J. Ashton, Dec. 15, 1868, . . . . . 989 361  
References—Thompson, 2,986 of 1867. English.

Davis, 59 of 1852.

Fuller, 844 of 1856.

86,504 Cheever, John H., Feb. 2, 1869, . . . . . 989 362  
References—Souther, George, 11,446. Aug. 1, 1854.

<i>P.</i>	<i>C.</i>	<i>P.</i>	<i>C.</i>
Lillie, 13,765 of 1851. English. Marcus, 59 of 1852. Dunlop, 97 of 1852. Fuller, 844 of 1856. Daft, 357 of 1852.			
86,709 Stearns, Caleb S., Feb. 9, 1869, . . . . .	989 362	172,200 Stocksdale, Cornelius F., Reamer, Hiram J., and Hurley, Madison M., Jan. 11, 1876, . . . . .	994 363
References—Dinsmore, John V., 64,642. May 14, 1867.		References—Van Patten, S., 102,627. May 3, 1870. Rendall, Joseph W., July 28, 1868.	
89835 Price, Virgil, May 4, 1869, . . . . .	989 362	179,253 Bailey, William H., June 27, 1876, 994 363	
References—Gregory, L., 43,197. June 21, 1864. Putnam, S. S., 74,134. Feb. 4, 1868.		References—Ashby, 15,214. July 1, 1856. Souther, 11,446. Aug. 1, 1854.	
91,204 Bierbach, Charles W., June 15, 1869, . . . . .	990 362	180,847 Cornwall, George, Aug. 8, 1876, 994 363	
No references.		References—Ham, 92,606. July 13, 1869.	
91,435 Greene, J. Ashton, June 15, 1869, 990 362		181,602 Smith, Herbert S., Aug. 29, 1876, 995 363	
References—Souther, George, 11,446. Aug. 1, 1854. Cheever, John H., 86,504. Feb. 2, 1869. Eldridge, F. E. (Withdrawn case). Filed Sept. 30, 1858.		No references.	
92,606 Ham, Daniel, July 13, 1869, . . . . .	990 362	192,055 Clark, George P., June 19, 1877, 995 364	
References—Souther, George, 11,446. Aug. 1, 1854. 844 of 1856. English. Eldridge, F. E. (Withdrawn case). Filed Sept. 30, 1858.		References—Bowen, 153,474. July 28, 1874. Saladee, 180,646. Aug. 1, 1876.	
96,635 Thomson, Robert W., Nov. 9, 1869, 990 362		193,988 Mulliner, Francis, Aug. 7, 1877, 995 364	
References—Ward, S. W. H., 85,259. Dec. 22, 1868. Souther, George, 11,446. Aug. 1, 1854.		References—Miller, 88,207. March 23, 1869. Greene, 91,435. June 15, 1869. Sterne, 112,295. Feb. 28, 1871. Souther, 11,446. Aug. 1, 1854.	
97,176 Duryea, Wright, Nov. 23, 1869, . . . . .	991 362	197,102 Cornwall, George, Nov. 13, 1877, 995 364	
No references.		References—Jeantaud, 165,587. July 13, 1875. Greene, 84,878. Dec. 15, 1868.	
109,447 Pettibone, C. Vallette, Nov. 22, 1870, . . . . .	991 362	232,266 Hancock, James L., and Salamon, Nahum, Sept. 14, 1880, . . . . .	996 364
References—Mayo, W. S., 86,772. Feb. 9, 1869. Winchester, Ed. S., 51,251. Nov. 28, 1865.		No references.	
111,213 Hyde, Oliver, Jan. 24, 1871, . . . . .	991 362	235,552 Moran, Thomas W., Dec. 14, 1880, 996 364	
No references.		References—Souther, 11,446. Aug. 1, 1854.	
117,422 Hyde, Oliver, July 25, 1871, . . . . .	991 362	245,827 Hood, George H., Aug. 16, 1881, 996 364	
No references.		References—Hancock & Salamon, 232,266. Sept. 14, 1880. 2,932 of 1860. English.	
117,760 Fitts, George W., Aug. 8, 1871, . . . . .	992 363	259,313 Jeffery, Thomas B., June 13, 1882, 996 364	
References—Thompson, R. W., 98,125. Dec. 21, 1869.		References—Moran, 235,551. Dec. 14, 1880.	
118,934 Hermance, Charles W., Sept. 12, 1871, . . . . .	992 363	263,982 Sperry, Elmer A., and Vandenberg, Jesse, Sept. 5, 1882, . . . . .	997 364
References—Tremain, C. W., 92,231. May 2, 1871. Hyde, O., 99,679. Dec. 6, 1870.		References—Shaw, 166,151. July 27, 1875. Crowell, 244,742. July 26, 1881. Stollker, 50,425. Oct. 10, 1865. Jefferson, 243,569. June 28, 1881. Stearns, 86,709. Feb. 9, 1869. Beck & Warwick, 209,216. Oct. 22, 1878. Work, 246,65. Sept. 6, 1881. Seymour, 81,828. Sept. 1, 1868. Fielding & Byint, 249,166. Nov. 8, 1881. Clark, 1,944 of 1879. English. Interference with application of Arthur M. Allen. Decision favorable to Sperry & Vandenburg.	
126,741 Ramsay, George M., May 14, 1872, 992 363		264,133 Brown, James O., Sept. 12, 1882, 997 365	
References—Raddin, John, 76,811. April 14, 1868.		References—French, 102,107. April 19, 1870.	
156,281 Cornwall, George, Oct. 27, 1874, 992 363		270,461 Myer, Frank, X. Jr., Jan. 9, 1883, 997 365	
References—Ayers, 70,681. Nov. 12, 1867. Buckminster, P. S. (Rejected case). Filed Feb. 6, 1871. Ball, 120,022. Oct. 17, 1871. Loughridge, 117,902. Aug. 8, 1871.		References—Valentine, 222,611. Dec. 16, 1879. Crosby, 170,994. Dec. 14, 1875. 2,236 of 1870. English. Sperry & Vandenburg, 263,982. Sept. 5, 1882.	
158,342 Wieltsbach, Albin, Dec. 29, 1874, 993 363		283,413 Overman, Albert H., and Hadley, Charles F., Aug. 21, 1883, . . . . .	998 365
References—Tolles, 1,440. Dec. 27, 1839. Buzzell, 82,690. Oct. 6, 1868.		References—Jefferson, 243,569. June 28, 1881.	
163,381 Jury, F. Herman, May 18, 1875, 993 363		289,733 Warwick, Thomas, Dec. 4, 1883, 998 365	
References—Saunders, 157,975. Dec. 22, 1874. Cornwall, 156,281. Oct. 27, 1874. Duwall, 124,729. March 19, 1872. Richardson, 143,421. Oct. 7, 1873. Richards, 136,876. March 18, 1873.		References—Challis, 911 of 1881. English. Smith, 4,687 of 1877.	"
165,587 Jeantaud, Charles, July 13, 1875, 993 363			
References—Stearns, 86,709. Feb. 9, 1869. Pratt & Thompson, 41,940. March 15, 1864			
169,100 Greene, John A., Oct. 26, 1875, . . . . .	994 363		
No references.			

- | P. C.  | P. C.   |
|--|---|
| 294,461 Gendron, Peter, March 4, 1884, 998 365   |   |
| References—Greene, 169,100. Oct. 26, 1875.<br>2,932 of 1860. English.<br>Davis, 113,846. Sept. 12, 1871.<br>106,061 of 1874. French.<br>Interference with application of John Savine. Decision favorable to Gendron. | Work, 260,650. Sept. 6, 1881.<br>Moran, 235,552. Dec. 14, 1880.   |
| 299,897 Wright, Wilber S., June 3, 1884, 999 365   |   |
| References—Rigley, 218,453. Aug. 12, 1879.<br>Dalzell, 175,943. April 11, 1876.<br>Guard, 172,425. Jan. 18, 1876.  | 334,322 Williams, Thomas B., Jan. 12, 1886, . . . . . 1004 368  |
| 301,245 Latta, Emmitt G., July 1, 1884, 999,366  |   |
| References—Quinn, 159,770. Feb. 16, 1875.<br>Crane, 258,559. May 30, 1882.<br>Stout, 223,404. June 6, 1880.<br>Jefferson, 243,569. June 28, 1881.<br>Latta, 280,633. July 3, 1883.<br>3,118 of, 1877. English.       | References—Lorenz, 303,228. Aug. 5, 1884.<br>McCune, Joseph B., Jan. 12, 1886, 1005 369   |
| 303,228 Lorenz, William A., Aug. 5, 1884, . . . . . 1000 366   | References—Schaad & Hoffman, 309,566. Dec. 23, 1884.<br>Jefferson, 243,569. June 28, 1881.  |
| No references.   | 335,590 Jeffery, Thomas B., Feb. 9, 1886, 1005 369  |
| 308,794 Pratt, Charles E., Dec. 2, 1884, 1000 366  | References—Pratt, 308,794. Dec. 2, 1884.<br>Latta, 301,245. July 1, 1884.<br>Watts, 30,549. Oct. 30, 1860.<br>Leddell, 320,973. June 16, 1885.<br>184 of 1884. English.<br>Warwick, 289,733. Dec. 4, 1883.  |
| References—Warwick, 289,733. Dec. 4, 1883.<br>Jefferson, 243,569. June 28, 1881.<br>Latta, 280,633. July 3, 1883.  | 337,774 Long, George S., March 9, 1886, 1005 369  |
| 310,857 White, Albert M., Jan. 13, 1885, 1000 366  | No references.  |
| References—Smith, 230,660. Aug. 3, 1880.   | Interference with application of Harry B. Hart. Decision favorable to Long.   |
| 310,862 Leigh, James, and McDowell, Robert W. H., Jan. 13, 1885, . . . . . 1000 366  | 339,422 Hudson, James, April 6, 1886, 1005 369  |
| References—Bird, 2,836 of 1874. English.<br>Greene, 169,100. Oct. 25, 1875.  | References—Latta, 280,633. July 3, 1883.<br>Salamon, 3,689 of 1877. English.  |
| 312,692 Yost, Joseph L., Feb. 24, 1885, 1001 367   | 339,550 Hudson, James, April 6, 1886, 1006 369  |
| No references.   | References—Warwick, 4,597 of 1882. English.<br>Warwick, 3,515 of 1883. “<br>3,689 of 1877. “  |
| 315,026 Heeley, Richard, April 7, 1885, 1001 367   | 341,811 Latta, Emmitt G., May 11, 1886, 1006 369  |
| No references.   | References—Butler, 308,747. Dec. 2, 1884.<br>Bowen, 328,280. Oct. 13, 1885.<br>Gendron, 294,461. March 4, 1884.<br>Greene, 169,100. Oct. 26, 1875.<br>Jeffery, 259,313. June 13, 1882.<br>3,564 of 1879. English.<br>Pressey, 234,722. Nov. 23, 1880. |
| 315,094 Warwick, George T., April 7, 1885, . . . . . 1001 367  | 343,959 Latta, Emmitt G., June 15, 1886, 1007 369   |
| References—Dimmick, 143,813. Oct. 21, 1873.<br>Patterson, 277,425. May 8, 1883.<br>Howland, 213,425. March 18, 1879.<br>Beall, 121,270. Nov. 28, 1871.<br>Warwick, 3,515 of 1883. English.                           | References—Jefferson, 243,569. June 28, 1881.<br>Latta, 328,235. Oct. 13, 1885.<br>Davis, 186,812. Jan. 30, 1877.<br>Brown, 264,133. Sept. 12, 1882.<br>Rowe, 4,946. Jan. 26, 1847.   |
| 315,537 Overman, Albert H., April 14, 1885, . . . . . 1002 367   | 344,442 Day, George H., June 29, 1886, 1007 370   |
| References—Latta, 280,633. July 3, 1883.<br>Richard, 252,624. Jan. 24, 1882.   | References—Warwick, 3,515 of 1883. English.   |
| 315,995 Bean, Roscoe, April 21, 1885, . . . . . 1002 367   | 345,351 Whiton, Lucius E., July 13, 1886, 1007 370  |
| References—Carr, 300,046. June 10, 1884.   | References—Richards, 252,624. Jan. 24, 1882.<br>Latta, 280,633. July 3, 1883.   |
| 317,847 Pfeiffer, Emil C., May 12, 1885, 1002 367  | 345,476 Barrett, Henry, and Varley, John J., July 13, 1886, . . . . . 1008 370  |
| References—Smith, 181,602. Aug. 29, 1876.  | References—Latta, 280,633. July 3, 1883.<br>Spadone, 208,432. Sept. 24, 1878.<br>Sterne, 93,364. Aug. 3, 1869.  |
| 317,956 White, Albert M., May 12, 1885, 1002 367   | 346,292 Latta, Emmitt G., July 27, 1886, 1008 370   |
| References—Warwick, 289,733. Dec. 4, 1883.<br>891 of 1881. English.  | References—Williams, 325,893. Sept. 8, 1885.<br>Carr, 300,046. June 10, 1884.<br>Latta, 324,568. Aug. 18, 1885.<br>Smith, 209,938. Dec. 25, 1883.<br>Latta, 315,304. April 7, 1885.<br>Ham, 92,606. July 13, 1860.<br>Brown, 264,133. Sept. 12, 1882. |
| 319,844 Partridge, Andrew, June 9, 1885, 1003 368  | 347,357 Latta, Emmitt G., Aug. 17, 1886, 1009 370   |
| References—Greene, 84,878. Dec. 15, 1868.  | References—Warwick, 315,094. April 7, 1885.<br>Latta, 325,944. Sept. 8, 1885.<br>Wallace, 249,278. Nov. 8, 1881.<br>Latta, 322,733. July 21, 1885.<br>Latta, 324,568. Aug. 18, 1885.  |
| 320,076 Long, George S., June 16, 1885, 1003 368   | 348,692 Rice, David H., Sept. 7, 1886, 1010 371   |
| References—Munson, 102,853. May 10, 1870.<br>Weaver, 153,207. July 21, 1874.<br>Reed, 94,839. Sept. 14, 1869.  | No references.  |
| 323,635 Chapin, William H., Aug. 4, 1885, . . . . . 1003 368   |   |
| No references.   |   |
| 325,944 Latta, Emmitt G., Sept. 8, 1885, 1004 368  |   |
| References—Forsman, 270,214. Jan. 9, 1883.<br>Latta, 301,245. July 1, 1884.<br>Davis, 148,422. March 10, 1874.   |   |

- 349,746 Rice, David H., Sept. 28, 1886, 1010 371  
 References—Beatty, 165,656. July 20, 1885.  
 Harris, 272,133. Feb. 13, 1883.  
 White, 317,750. May 12, 1885.  
 Warwick, 289,733. Dec. 4, 1883.  
 Jefferson, 243,569. June 24, 1881.  
 Danforth, 262,650. Aug. 15, 1882.
- 349,773 Williams, Thomas B., Sept. 28, 1886, 1010 371  
 References—Lorenz, 303,228. Oct. 5, 1884.  
 Williams, 334,322. Jan. 12, 1886.
- 353,071 King, Homer A., Nov. 23, 1886, 1010 371  
 References—Butler, 308,747. Dec. 2, 1884.  
 Scott & Frenier, 276,599. May 1, 1883.  
 Warwick, 315,094. April 7, 1885.  
 Latta, 347,357. Aug. 17, 1886.  
 Latta, 341,811. May 11, 1886.  
 2,233 of 1884. English.  
 Perkins, 309,086. Dec. 9, 1884.  
 Latta, 341. May 1, 1886.  
 1,222 of 1884. English.  
 Kelly, 321,819. July 7, 1885.  
 Hart, 339,705. April 13, 1886.  
 Overman, 3,6,537. April 14, 1885.  
 Warwick, 315,094. April 7, 1885.
- 355,359 Turner, Joseph A., Jan. 4, 1887, 1011 371  
 References—7,935 of 1884. English.  
 4,898 of 1876. "  
 2,746 of 1870. "
- 358,291 Otto, Edward C. F., Feb. 22, 1887, 1011 371  
 References—Latta, 341,811. May 11, 1886.  
 Jefferson, 259,313. June 13, 1882.
- 362,472 Warwick, Thomas, May 3, 1887, 1011 371  
 References—4,687 of 1877. English.  
 Pratt, 308,794. Dec. 2, 1884
- 362,514 Kelley, William S., May 10, 1887, 1011 372  
 References—Work, 246,650. Sept. 6, 1881.  
 Shaw, 166,151. July 27, 1875.  
 Pressey, 234,722. Nov. 23, 1889.  
 4,597 of 1882. English.  
 Sperry & Vandenberg, 263,982.  
 Sept. 5, 1882.  
 Latta, 301,245. July 1, 1884.  
 Shaw, 540 of 1875. English.  
 190 of 1879.  
 Interference with application of Albert H. Overman. Decision favorable to Kelley.
- 364,989 Carmont, William H., June 14, 1887, 1012 372  
 References—2,960 of 1884. English.  
 97 of 1852. "  
 4,189 of 1885. "  
 1,289 of 1884. "  
 4,352 of 1883. "
- 365,091 Owen, Frederick D., July 21, 1887, 1012 372  
 References—3,564 of 1879. English.  
 4,317 of 1881. "  
 Hancock & Salomon, 232,266. Sept. 14, 1880.  
 Latta, 346,292. July 27, 1886.  
 15,231 of 1884. English.  
 608 of 1884. "
- Moran, 235,551. Dec. 14, 1880.  
 Orcutt, 301,144. July 1, 1884.  
 Overman, 315,537. April 14, 1885.  
 7,794 of 1885. English.  
 King, 353,071. Nov. 23, 1886.  
 14,945 of 1885. English.
- P. C.
- 371,580 Harris, Frank H., Oct. 18, 1887, 1013 372  
 References—Mulliner, 193,988. Aug. 7, 1877.  
 Greene, 169,100. Oct. 26, 1875.
- 375,682 Partridge, Andrew, Dec. 27, 1887, 1013 372  
 References—Clark, 192,055. June 19, 1877.
- 377,900 Latta, Emmit G., Feb. 14, 1888, 1013 373  
 References—3,959 of 1874. English.  
 882 of 1876. "  
 193 of 1886. "  
 2,786 of 1880. "  
 1,871 of 1881. "  
 796 of 1883. "  
 Van Anden, 88,238. March 23, 1869.  
 10,083 of 1886. English.  
 3,596 of 1885. "  
 2,901 of 1886. "
- 382,658 Nickerson, Fred A., May 8, 1888, 1014 373  
 References—Buzzell, 98,920. Jan. 18, 1870.  
 Warwick, 302,472. May 3, 1887.
- 382,885 Latta, Emmit G., May 15, 1888, 1014 373  
 References—5,103 of 1882. English.  
 1,545 of 1885. "  
 3,959 of 1874. "  
 Hancock & Salomon, 232,266. Sept. 14, 1880.  
 King, 353,071. Nov. 23, 1886.  
 Masey & Blundstone, 6,251 of 1885. English.
- 383,129 Jeffery, Thomas B., May 22, 1888, 1015 373  
 References—Rice, 348,692. Sept. 7, 1886.  
 Gendron, 294,461. March 4, 1884.  
 15,422 of 1884. English  
 4,189 of 1885. "
- 383,130 Jeffery, Thomas B., May 22, 1888, 1015 373  
 References—Greene, 169,100. Oct. 26, 1875.  
 Hubbard, 117,077. July 18, 1871.  
 Owen, 365,001. June 21, 1887.  
 3,564 of 1879. English.  
 97 of 1852. "  
 106,061. Dec. 14, 1874. French.  
 193 of 1886. English.  
 Esterle, 60,495. Dec. 18, 1866.
- 383,214 Cummings, Michael J., May 22, 1888, 1015 374  
 References—Clark, 192,055. June 19, 1877.  
 Partridge, 375,682. Dec. 27, 1887.  
 Foulon, 348,901. Sept. 14, 1886.
- 388,907 O'Brien, Thomas, Sept. 4, 1888, 1015 374  
 References—12,663 of 1849. English.  
 2,894 of 1876. "  
 988 of 1881. "
- 394,068 Forman, Sands, Dec. 4, 1888, 1016 374  
 References—Ashe, 15,214. July 1, 1856.  
 Jeantaud, 165,587. July 13, 1875.  
 651 of 1875. English.  
 2,307 1878. "
- 396,164 Latta, Emmit G., Jan. 15, 1889, 1016 374  
 References—Hillman, 311,320. Jan. 27, 1885.  
 Warwick, 322,221. July 14, 1885.  
 Latta, 325,420. Sept. 1, 1885.  
 Scott, 340,254. April 20, 1886.  
 Forman, 270,214. Jan. 9, 1883.  
 Hughes, 227,632. May 18, 1880.  
 Latta, 332,092. Dec. 8, 1885.

P.	C.	P.	C.
Latta, 325,420. Sept. 1, 1885. Latta, 324,568. Aug. 18, 1885. Jefferson, 355,321. Jan. 4, 1887. Howell, 369,641. Sept. 6, 1887. Fisher, 369,15. Dec. 18, 1860.		400,098 Marlin, John M., March 26, 1889, 1020 376 References—Perkins, 12,871. May 15, 1855.	
397,458 DuBois, Howard M., Feb. 5, 1889, . . . . . 1016 374 References—Jeautaud, 165,587. July 13, 1875. Stearnes, 86,709. Feb. 9, 1869. Greene, 84,878. Dec. 15, 1868.		403,346 Harris, Frank H., May 14, 1889, 1020 377 References—Harris, 206,442. July 30, 1878. Brown, 209,856. Nov. 12, 1878. Ewing, 357,120. Feb. 1, 1887. Munson, 102,853. May 10, 1870. Hairston, 143,282. Sept. 30, 1873.	
397,459 DuBois, Howard M., Feb. 5, 1889, 1017 374 References—Jeffery, 353,130. May 22, 1888. Turner, 355,359. Jan. 4, 1887. Dunlop, 97 of 1852. English.		404,692 Dommoyer, Rudolph W., June 4, 1889, . . . . . 1020 377 References—Huguenin, 146,255. Jan. 6, 1874. Gendron, 294,461. March 4, 1884.	
399,354 Thomas, Amos W., March 12, 1889, . . . . . 1017 375 References—Overman, 315,537. April 14, 1885. 4,858 of 1876. English. 608 of 1887.		406,742 Klipstein, James H., July 9, 1889, . . . . . 1021 377 References—Munson, 102,853. May 10, 1870.	
399,355 Thomas, Amos W., March 12, 1889, . . . . . 1017 375 No references.		411,791 DuBois, Howard M., Oct. 1, 1889, 1021 377 References—Jeffery, 259,313. June 13, 1882. 13,511 of 1884. English.	
399,356 Thomas, Amos W., March 12, 1889, . . . . . 1017 375 No references.		412,699 DuBois, Howard M., Oct. 8, 1889, . . . . . 1021 377 References—Gendron, 294,461. March 4, 1884. Souther, 11,446. Aug. 1, 1854. Overman, 315,537. April 14, 1885. King, 355,971. Nov. 23, 1886. Moran, 235,552. Dec. 14, 1880. 1,289 of 1884. English. 41,391 of 1887. German. King, 360,162. March 29, 1887.	
11,155 Thomas, Amos W., April 7, 1891, (R), . . . . . 1018 375 References—Thomson, 5,104. May 8, 1847.		418,982 Lyon, Fremont E., Jan. 7, 1890, 1021 377 References—Latta, 346,292. July 27, 1880. Birrell & Varley, 345,476. July 13, 1886. Jeffery, 383,129. May 22, 1888. 3,564 of 1879. English. 2,746 of 1870. "	
399,357 Thomas, Amos W., March 12, 1889, . . . . . 1018 375 No references.		419,005 DuBois, Howard M., Jan. 7, 1890, . . . . . 1022 377 References—Harris, 371,580. Oct. 18, 1887.	
399,358 Thomas, Amos W., March 12, 1889, . . . . . 1018 376 References—Pfeiffer, 317,847. May 12, 1885. 11,445 of 1886. English.		420,609 Southard, Frank E., and Klauser, Arthur E., Feb. 4, 1890, . . . . . 1022 378 No references.	
399,359 Thomas, Amos W., March 12, 1889, . . . . . 1018 376 References—13,997 of 1884. English. 12,787 of 1886. " 8,408 of 1887. "		420,663 McGovern, Bernard, Feb. 4, 1890, 1022 378 References—Pratt & Thompson, 41,940. March 15, 1884. Cornwall, 197,102. Nov. 13, 1877. Jeautaud, 165,587. July 13, 1875. Soule & Manuel, 241,244. May 10, 1881. Cortiss, 260,744. July 11, 1882.	
399,360 Thomas, Amos W., March 12, 1889, . . . . . 1019 376 References—13,997 of 1884. English. 12,787 of 1886. " 8,408 of 1887. " 1,609 of 1884. "		420,610 Southard, Frank E., and Klauser, Arthur E., Feb. 4, 1890, . . . . . 1022 378 No references.	
399,361 Thomas, Amos W., March 12, 1889, . . . . . 1019 376 References—King, 353,071. Nov. 23, 1886.		422,349 Leggett, William, Feb. 25, 1890, 1023 378 References—Whiton, 345,351. July 13, 1886. Greene, 109,100. Oct. 26, 1875. Bailey, 179,253. June 27, 1876.	
399,362 Thomas, Amos W., March 12, 1889, . . . . . 1019 376 References—12,663 of 1849. English. Carmon, 364,689. June 14, 1887.		424,452 Beiersmith, Peter J., April 1, 1890, . . . . . 1023 378 References—Dommoyer, 404,692. June 4, 1889. Forman, 394,068. Dec. 4, 1888. DuBois, 412,699. Oct. 8, 1889. Jeffery, 383,129. May 22, 1888. Ross, 255,400. March 28, 1882. 4,926 of 1884. English.	
399,453 Warwick, George T., March 12, 1889, . . . . . 1020 376 References—Raddin, (R.) 9,963. Dec. 6, 1881. 470 of 1867. English. Nickerson, 382,658. May 8, 1888. 3,502 of 1877. English. 3,778 of 1886. " 477 of 1867. " Coomis, 63,705. April 9, 1867. Leigh & McDowell, 310,862. Jan. 13, 1885. Otto, 358,291. Feb. 22, 1887. Ayres, 61,793. Feb. 5, 1867. Latta, 343,956. June 15, 1886.		424,766 DuBois, Howard M., April 1, 1890, . . . . . 1023 378 References—Jeautaud, 165,587. July 13, 1875. Stearns, 86,709. Feb. 9, 1869. 12,787 of 1886. English.	

P.	C.	P.	C.
Glidden, 127,687. Jan. 11, 1872. 14,180. German. 1,609 of 1884. English.		2,133 of 1886. English. "Tricyclists' Indispensable Annual" of 1882, p. 18.	
429,818 Singer, George, June 10, 1890, 1023 378 No references.		"Indispensable Bicyclist's Handbook," 1887, page 8.	
431,223 Claypool, Albert, July 1, 1890, 1024 379 References—Latta, 280,633. July 3, 1883. Greene, 169,100. Oct. 26, 1875. Carmon, 364,989. June 14, 1887.		440,702 Elliott, Sterling, Nov. 18, 1890, 1027 381 References—Harris, 371,580. Oct. 18, 1887. 13,511 of 1884. English. 12,517 of 1886. " Uenzicker, 393,944. Nov. 20, 1888. Whitton, 345,351. July 13, 1886.	
431,512 DuBois, Howard M., July 1, 1890, 1024 379 References—Jeautaud, 105,587. July 13, 1875. DuBois, 397,458. Feb. 5, 1889. Johnson, 651 of 1875. English. 43,555. German. 10,819 of 1888. English.		441,521 Warwick, George T., Nov. 25, 1890, . . . . . 1027 381 References—Thomas, 399,356. March 12, 1889. 608 of 1884. English. 10,999 of 1845. "	
434,974 Bartlett, William E., Aug. 26, 1890, . . . . . 1024 379 References—Gendron, 294,461. March 4, 1884. Jeffery, 383,129. May 22, 1888. DuBois, 412,699. Oct. 8, 1889. Jeffery, 259,313. June 13, 1882. Brady, 244,373. July 19, 1881. Owen, 365,091. June 21, 1887. 3,564 of 1879. English.		441,820 Bromley, Joseph E., and Straus, Alexander, Dec. 2, 1890, . . . . . 1027 381 No references.	
435,995 Dunlop, John B., Sept. 9, 1890, 1024 379 No references.		442,393 Richwine, William, Dec. 9, 1890, 1028 381 No references.	
11,153 } Dunlop, John B., March 24, 435,595 } 1891, (R.) . . . . . 1025 379 No references.		442,730 Elliott, Sterling, and Richards, Hubert P., Dec. 16, 1890, . . . . . 1028 382 References—Latta, 280,633. July 3, 1883. 4,317 of 1881. English.	
436,993 Overman, Albert H., Sept. 23, 1890, . . . . . 1025 379 References—DuBois, 412,699. Oct. 8, 1889. Carmon, 364,989. June 14, 1887. 41,391 of 1887. German. Owen, 365,091. June 21, 1887.		442,779 Mogk, Victor F., Dec. 16, 1890, 1028 382 References—Buzzell, 82,690. Oct. 6, 1868. Ramsay, 126,741. May 14, 1872. 5,538 of 1882. English. 193 of 1886. 26,766. German.	
437,447 Overman, Albert H., Sept. 30, 1890, . . . . . 1025 380 References—Thomas, 399,362. March 12, 1889. 6,080 of 1884. English. Jeffery, 383,129. May 22, 1888.		442,832 Sheridan, William, Dec. 16, 1890, 1028 382 No references.	
437,998 Kenney, Thomas M., Oct. 7, 1890, . . . . . 1025 380 References—Ham, 92,606. July 13, 1869. Mulliner, 193,988. Aug. 7, 1877. Brown, 264,133. Sept. 12, 1882.		442,948 Bowley, Arthur S., Dec. 16, 1890, 1029 382 No references.	
438,334 Wesson, Daniel B., Oct. 14, 1890, 1026 380 No references.		443,735 Woodward, Charles E. W., Dec. 30, 1890, . . . . . 1029 382 References—5,103 of 1882. English. 10,318 of 1888. " Hancock & Salomon, 232,266. Sept. 14, 1880. 6,251 of 1885. English. White, 310,857. Jan. 13, 1885. Overman, 388,068. Aug. 21, 1888. Jeffery, 383,129. May 22, 1888. Latta, 382,885. May 15, 1888. King, 349,800. Sept. 28, 1886.	
438,383 Overman, Albert H., Oct. 14, 1890, . . . . . 1026 380 References—Owen, 365,091. June 21, 1887.		444,069 Jeffery, Thomas B., Jan. 6, 1891, 1029 382 References—10,990 of 1884. English.	
439,359 Seale, Elias A., Oct. 28, 1890, 1026 381 References—Ewing, 357,120. Feb. 1, 1887. Gatewood, 372,370. Nov. 1, 1887. Schurben, 303,545. Aug. 12, 1884. Seale & Downing, 375,775. Jan. 3, 1888. Badlam & Southwick, 269,373. Dec. 19, 1882. 1,455 of 1884. English. 14,729. German. 8,042 of 1888. English. Carr, 273,815. March 13, 1883. Hairston, 143,282. Sept. 30, 1883. Gaines, 117,878. Aug. 8, 1871. Williams, 233,311. Oct. 12, 1880.		446,189 Overman, Albert H., Feb. 10, 1891, . . . . . 1029 382 References—Nickerson, 382,658. May 8, 1888. Warwick, 362,472. May 3, 1887.	
440,701 Elliott, Sterling, Nov. 18, 1890, 1027 381 References—Greene, 169,100. Oct. 26, 1875. Bailey, 179,253. June 27, 1876. 97 of 1852. English. 4,926 of 1884. " 106,061 of 1874. French.		446,692 Overman, Albert H., Feb. 17, 1891, . . . . . 1030 382 References—Latta, 385,885. May 28, 1888.	
		446,910 Woolson, Egbert, Feb. 24, 1891, 1030 383 No references.	
		447,822 Hall, John W., March 10, 1891, 1030 383 References—Thomson, 5,104. May 8, 1847.	
		447,993 Whittemore, Louis D. Jr., March, 10, 1891, . . . . . 1030 383 References—Bromley & Straus, 441,820. Dec. 2, 1890. Kelley, 321,819. July 7, 1885.	

P.	C.	P.	C.
448,793 Bartlett, William E., March 24, 1891, . . . . .	1031 383	453,550 Dunlop, John B., June 2, 1891, 1035 386	
References—Overman, 437,447. Sept. 30, 1890. Thomas, 399,362. March 12, 1889. Owen, 365,991. June 21, 1887. Bartlett, 434,974. Aug. 26, 1890. Elliott & Richards, 442,730. Dec. 16, 1890.		References—Dunlop, 435,995. Sept. 9, 1890. Dunlop, 4,116 of 1889. English. Thomson, 5,104. May 8, 1847.	
11,216 } Bartlett, William E., Dec. 29, 448,793 } 1891, (R) . . . . .	1031 383	454,092 Turner, Joseph A., June 16, 1891, . . . . .	1035 386
No references.		No references.	
449,281 Challiner, Charles, March 31, 1891, . . . . .	1031 383	454,115 Jeffery, Thomas B., June 16, 1891, . . . . .	1035 386
References—Pratt & Thompson, 41,940. March 15, 1864. DuBois, 397,458. Feb. 5, 1889. 651 of 1875. English.		References—6,355 of 1887. English.	
449,502 Straus, Alexander, March 31, 1891, . . . . .	1032 384	455,426 Goodrich, Harry C., July 7, 1891, 1036 386	
References—Otto, 358,291. Feb. 22, 1887. Unzicker, 393,944. Nov. 20, 1888. Hare, 166,457. Aug. 10, 1875. Herrick, 315,781. April 14, 1885.		References—Jefferson, 243,569. June 28, 1881. Munson, 219,500. Sept. 9, 1879. Post, 442,456. Dec. 9, 1890. Tice, 292,072. Jan. 15, 1884. Latta, 382,885. May 15, 1888.	
450,816 Overman, Albert H., April 21, 1891, . . . . .	1032 384	455,899 Dunlop, John B., July 14, 1891, 1049 387	
References—Thomas, 399,362. March 12, 1889. Owen, 365,991. June 21, 1887. DuBois, 412,699. Oct. 8, 1889. Thomas, 399,359. March 12, 1889. Elliott & Richards, 442,730. Dec. 16, 1890.		References—13,282 of 1887. English. Otto, 116,742. July 4, 1871.	
450,951 Tillinghast, Pardon W., April 21, 1891, . . . . .	1033 384	456,028 Foster, William R., July 14, 1891, 1036 387	
References—Barrett & Varley, 345,476. July 13, 1886.		No references.	
451,013 Ball, John H., April 28, 1891, 1033 385		456,218 Goodrich, Harry C., July 21, 1891, . . . . .	1036 387
References—Heeley, 315,926. April 7, 1885. King, 349,801. Sept. 28, 1886. King, 349,802. Sept. 28, 1886. King, 341,383. May 4, 1886.		References—Cummins, 393,218. Nov. 20, 1888. Jefferson, 243,569. June 28, 1881. Overman, 436,993. Sept. 23, 1890. Howell, 293,251. Feb. 12, 1884. Overman, 388,068. Aug. 21, 1888. Warwick, 315,094. April 7, 1885.	
451,477 Gleason, Francis, May 5, 1891, 1033 385		456,702 Jacobs, Charles F., July 28, 1891, 1036 387	
References—Thomson, 5,104. May 8, 1847. 7,262 of 1888. English. 9,356 of 1885. " 10,318 of 1888. " 1,506 of 1859. " 2,030 of 1872. " Lawrence, 68,999. Sept. 17, 1867. Foster, 309,705. Dec. 23, 1884.		References—Thomson, 5,104. May 8, 1847. Owen, 365,991. June 21, 1887. Southard & Klausser, 420,610. Feb. 4, 1890. Moran, 235,552. Dec. 14, 1880.	
452,001 Yagn, Nicholas, May 12, 1891, 1034 385		456,705 Myers, Henry, July 28, 1891, . . . . .	1037 387
References—4,352 of 1883. English. Latta, 346,292. July 27, 1886.		References—Thomson, 5,104. May 8, 1847. Jeffery, 444,069. Jan. 6, 1891. 5,617 of 1884. English. 7,262 of 1888. " Wesson, 438,334. Oct. 14, 1890. Gleason, 451,477. May 5, 1891.	
452,876 Gray, Christian H., May 26, 1891, . . . . .	1034 385	456,751 Ahlborn, George, July 28, 1891, 1037 388	
No references.		References—Greene, 169,100. Oct. 26, 1875. Latta, 341,811. May 11, 1886. Warwick, 309,453. March 12, 1889. Gendron, 294,461. March 4, 1884.	
453,520 Straus, Alexander, June 2, 1891, 1034 386		456,771 McCune, Joseph B., July 28, 1891, 1037 388	
References—5,468 of 1882. English.		References—Thomson, 5,104. May 8, 1847.	

P.	C.	P.	C.
458,142 Blundstone, Benjamin, Aug. 18, 1891, . . . . .	1040 389	463,153 Hoffmann, Ernest G., Nov. 17, 1891, . . . . .	1044 391
References—Emerson, & Midgley, 386,304. July 17, 1888.		References—Otto, 358,291. Feb. 22, 1887. Uznicker, 393,044. Nov. 20, 1888.	
Mayall, 39,238. July 14, 1863. Horton, 386,321 July 17, 1888.		Singer, 429,818. June 10, 1890. Elliott, 449,702. Nov. 18, 1890. Latta, 341,811. May 11, 1886.	
458,393 Heale, William, Aug. 25, 1891, 1040 389		463,181 West, Jonathan B., Nov. 17, 1891, 1044 391	
References—4,116 of 1889. English. 13,511 of 1884. "		References—Warwick, 350,176. Oct. 5, 1886. 8,538 of 1882. English. 8,347 of 1886. " 193 of 1886. " 6,027 of 1836. " 59 of 1866. "	
458,547 Foster, Benjamin C., Aug. 25, 1891, . . . . .	1040 389	463,877 Thierry, James, Nov. 24, 1891, 1044 391	
References—Thomson, 5,104. May 8, 1847. Jeffery, 383,131. May 22, 1888.		References—Hess, 352,187. Nov. 9, 1886. Weathers, 112,099. Feb. 21, 1871. Thomas, 399,358. March 12, 1889. Wright, 411,364. Sept. 17, 1889. Winters, 287,075. Oct. 23, 1883. Owen, 365,091. June 21, 1887. Bartlett, 434,974. Aug. 26, 1890.	
459,015 Myers, Henry, Sept. 8, 1891, 1040 389		464,767 Woodward, Charles E. W., Dec. 8, 1891, . . . . .	1044 392
No references.		References—Rogers, Feb. 17, 1836. Pyle, 189,386. April 10, 1887. King, 353,071. Nov. 23, 1886.	
459,335 Rose, Stephen J., Sept. 8, 1891, 1041 389		464,837 Takken, Evert, Dec. 8, 1891, . . . . .	1045 392
No references.		References—Munson, 219,500. Sept. 9, 1879. Lamb & Root, 7,874 Jan. 1, 1851.	
459,363 Hill, Louis A., Sept. 8, 1891, 1041 390		465,135 Horton, Numon N., Dec. 15, 1891, . . . . .	1045 392
References—Thomas, 399,356. March 12, 1889. 668 of 1884. English. 10,990 of 1845. "		References—Cummings, 87,913. March 16, 1863. Terry, 416,190. Dec. 3, 1889. Cummins, 393,218. Nov. 20, 1888. Warwick, 399,453. March 12, 1889.	
459,614 Richwine, William, Sept. 15, 1891, 1041 390		465,476 Howard, Henry G. M., Dec. 22, 1891, . . . . .	1045 393
References—Thomson, 5,104. May 8, 1847. Thomas, 399,356. March 12, 1889. Bowley, 442,948. Dec. 16, 1890. Latta, 346,292. July 27, 1886. DuBois, 397,459. Feb. 5, 1889. Forman, 394,068. Dec. 4, 1888. Moran, 235,552. Dec. 14, 1880.		References—Everson, 425,311. April 8, 1890. Rice, 349,746. Sept. 28, 1886. Davis, 251,196. Dec. 20, 1881. Toomey, 350,572. Oct. 12, 1886.	
459,699 Duryea, Charles E., Sept. 15, 1891, . . . . .	1041 390	466,112 Bingham, John H., Dec. 29, 1891, . . . . .	1046 393
References—Owen, 365,091. June 21, 1887. Thomson, 5,104. May 8, 1847. Overman, 315,537. April 14, 1885. King, 353,071. Nov. 23, 1886. Jeffery, 383,129. May 22, 1888. 7,394 of 1889. English. 2,330 of 1872. "		References—Thomson, 5,104. May 8, 1847. Warwick, 441,521. Nov. 25, 1890. Bromley & Straus, 441,820. Dec. 2, 1890. 6,566 of 1890. English. Jeffery, 444,060. Jan. 6, 1891. "Cyclist." Feb. 18, 1891.	
460,243 Weir, Thomas, Sept. 29, 1891, 1042 390			
No references.			
Interference with applications of John H. Ball, Henry B. Clayton and Louis A. Hill. Dissolved.			
460,714 DeWolfe, Edward R., Oct. 6, 1891, . . . . .	1042 391		
No references.			
Interference with application of Charles H. Woods. Decision favorable to De- Wolfe.			
462,013 Moseley, Joseph, and Blundstone, Benjamin, Oct. 27, 1891, . . . . .	1042 391		
References—25,399. German. Thomas, 399,355. March 12, 1889.			
462,387 Wollmann, Carl T., Nov. 3, 1891, 1043 391			
No references.			
462,815 Heale, William, Nov. 10, 1891, 1043 391			
No references.			
		Hose and Tubing.	
		Riley, James, Feb. 6, 1833, . . . . .	807 435
		No references.	
		Breed, Samuel D., June 29, 1833, . . . . .	807 435
		No references.	
		4,150 Day, Horace H., Aug. 16, 1845, . . . . .	808 435
		No references.	
		7,650 Day, Horace H., and McMullen, Richard, Sept. 17, 1250, . . . . .	808 435
		No references.	
		14,929 Puffer, A. D., May 20, 1856, . . . . .	808 435
		No references.	
		23,571 Hale, Loren, April 12, 1859, . . . . .	808 435
		No references.	

<i>P. C.</i>	<i>P. C.</i>
23,781 Punderford, James, April 26, 1859, 809 435 References—Solis, R., Nov. 7, 1848. Story & Hopper, Aug. 7, 1847. Hinckley, C. H., Sept. 29, 1857. Hayward, N., Jan. 16, 1856. Tyr & Helm. Thos. Hank's work, "India Rubber Manufacture," pp. 261 and 268.	7,137 1 Taylor, William B. S., May 55,740 1 23, 1876, (R) . . . . . 814 437 No references. 60,555 Punderford, James and James A., Dec. 18, 1866, . . . . . 815 437 No references. 64,362 Reed, Thomas L., April 30, 1867, 815 437 No references. 66,111 White, Thomas R., and Bedford, William G., June 25, 1867, . . . . . 815 438
24,132 Mayo, W. S., May 24, 1859, . . . 809 435 No references. 24,222 McBurney, Charles, May 31, 1859, 809 435 No references. 25,239 Boyd, John C., Aug. 30, 1859, . . . 809 435 References—Punderford, 23,751. April 26, 1859. 5,731 1 Boyd, John C., Jan. 20, 1874, (R) 810 436 25,239 1 Boyd, John C., Jan. 20, 1874, (R) 810 436 References—339 of 1857. English. 140 of 1858. " 27,553 Mayall, Thomas J., March 20, 1860, 810 436 No references. 27,819 McBurney, Charles, April 10, 1860, 810 436 No references. 28,231 Alden, Henry A., May 8, 1860, 810 436 No references. 28,432 Alden, Henry A., May 22, 1860, 811 436 No references. 28,647 Butler, John, June 12, 1860, . . . 811 436 No references. 31,552 Mayall, Thomas J., Feb. 26, 1861, 811 436 References—Lee, B. F., Dec. 1859. Haines, 12,828 of 1849. English. Edwards, 155 of 1854. " 31,614 Mayall, Thomas J., March 5, 1861, 811 436 No references. 39,237 Mayall, Thomas J., July 14, 1863, 812 436 No references. 39,238 Mayall, Thomas J., July 14, 1863, 812 436 No references. 44,425 Hoxsie, David K., and Reed, Thomas L., Sept. 29, 1864, . . . 812 436 No references. 45,218 Beckers, Alexander, Nov. 29, 1864, 812 436 No references. 46,295 Clark, Anthony, Feb. 7, 1865, 813 436 No references. 46,507 Taylor, William B.S., Feb. 21, 1865, 813 436 No references. 46,558 Gleason, Elliott P., Feb. 28, 1865, 813 437 No references. 51,052 Hoxsie, David K., and Reed, Thomas L., Nov. 21, 1865, . . . 813 437 No references. 53,161 McAuley, Thomas, and Cheney, M. L., March 13, 1866, . . . . . 814 437 No references. 54,909 Hoxsie, David K., and Reed, Thomas L., May 22, 1866, . . . . . 814 437 No references. 55,740 Taylor, William B.S., June 19, 1866, 814 437 References—Hoxsie & Reed, 44,425. Sept. 29, 1864.	88,344 Bonnaffon, Glaucus H., Sept. 3, 1867, 816 438 No references. 68,432 French, Edwin W., Sept. 3, 1867, 816 438 References—Capewell, J. I., July 24, 1866. Blake, L. R., and Greene, J. F., (Rejected case). Filed April 18, 1865. 68,641 Meyers, Charles F.W., Sept. 10, 1867, 816 438 No references. 72,488 Hartley, Howard, Dec. 24, 1867, 816 438 No references. 76,049 Carney, Andrew, March 31, 1868, 817 438 No references. 78,260 Chaffee, Edwin M., May 26, 1868, 817 438 References—Randall, S. G., Aug. 21, 1866. 1,378 of 1864. English. 2,046 of 1864. " 80,901 Bourn, Augustus O., Aug. 11, 1868, 817 438 No references. 83,132 Coles, George, Jacques, James A., and Franshawe, John A., Oct. 20, 1868, . . . . . 817 438 References—2,397 of 1859. English. Heinemann & Buser, 30,944. Dec. 18, 1860. Collins, G., 28,738. June 19, 1860. Wortendyke, (Rejected case). Filed July 25, 1853. Neuman, C. (Rejected case). Filed 1858. 3,206 of 1864. English. 85,395 Perry, Edward L., Dec. 29, 1868, 818 438 References—Salgee, O., 68,656. Sept. 10, 1867. Ford, John E., 52,839. Feb. 27, 1866. Hoxie & Reed, 44,425. Sept. 29, 1864. 86,652 Davis, James, Feb. 9, 1869, . . . . . 819 438 References—2,880 of 1858. English. 88,887 Mayall, Thomas J., April 13, 1869, 819 438 No references. 90,031 Smith, George C., May 11, 1869, 819 438 References—Bewley & Haines, 10,825 of 1845. English. Bewley & Haines, 12,328 of 1849. " 92,353 Perry, Edward L., and Manheim, Charles, July 6, 1869, . . . . . 819 438 No references. 4,148 1 Perry, Edward L., and Manheim, Charles, Oct. 4, 1870, (R) 820 438 No references.

	P.	C.	P.	C.	
92,381 Smith, George C., July 6, 1869, .	820	439	133,219 Gately, Dennis C., Nov. 19, 1872, .	825	440
No references.			References—2,327 of 1853. English.		
95,265 Randolph, P. F., Sept. 28, 1869, .	820	439	133,560 Burnham, George L., Dec. 3, 1872, .	825	441
References—Hale, Loren, 23,571. April 12, 1859.			No references.		
Randall, B. M. Nov. 22, 1864.			133,785 Libby, Asa S., Dec. 10, 1872, .	826	441
Hedge, April 22, 1851.			References—French, E. W., 68,432. Sept. 3, 1867.		
Long, C. R., 81,655. Sept. 1, 1868.			134,654 Downs, William C., Jan. 7, 1873, .	826	441
97,853 Alden, Henry A., Dec. 14, 1869, .	820	439	References—McBurney, C., 24,222. May 31, 1859.		
No references.			138,845 Blake, Lyman R., May 13, 1873, .	826	441
98,603 Lee, Benjamin F., Jan. 4, 1870, .	821	439	References—Alden, H. A., 28,231. May 8, 1860.		
References—French, E. W., 68,432. Sept. 3, 1867.			Alden, H. A. 28,231. May 22, 1860.		
Meyer, G. F. W., 68,641. Sept. 10, 1867.			Reed, T. L., 124,914. March 26, 1872.		
Carney, A., 76,049. March 31, 1868.			French, E. W., 68,432. Sept. 3, 1867.		
Carry, A. W., 8,716. Feb. 10, 1852.			Libby, A. S., 130,393. Aug. 6, 1872.		
Riley, J. Feb. 6, 1837.			Mayall, T. J., 31,614. May 5, 1861.		
99,018 Smith, George C., Jan. 18, 1870, .	821	439	138,867 Downing, Leverett H., May 13,		
No references.			1873, . . . . .	826	441
100,096 Alden, Henry A., Feb. 22, 1870, .	821	439	No references.		
No references.			141,712 Hawkins, Lorenzo P., Aug. 12,		
100,244 Allen, Albert F., March 1, 1870, .	821	439	1873, . . . . .	827	441
No references.			No references.		
100,448 Rider, John P., and Bird, James R., March 1, 1870, . . . . .	822	439	142,054 Street, Edwin A., Aug. 19, 1873, .	827	441
No references.			No references.		
103,369 Reed, Thomas L., May 24, 1870, .	822	439	5,930(R.) } Street, Edwin A., June 23, 1874,		
No references.			142,054 } (R.) . . . . .	827	441
105,335 Hotchkiss, Burritt M., July 12, 1870, . . . . .	822	439	No references.		
No references.			143,661 Blake, Lyman R., Oct. 14, 1873, .	827	441
114,394 Bird, James R., May 2, 1871, .	822	440	References—Mayall, T. J., 31,614. March 5, 1861.		
No references.			144,163 Taylor, William B. S., Oct. 28, 1873, .	828	442
123,365 Sharp, Joseph, Feb. 6, 1872, . . . . .	823	440	No references.		
References—Blake, L. R., & Greene, J. F., (Rejected case.) Filed May 5, 1864.			148,258 Street, Edwin A., March 3, 1874, .	828	442
Brue, J. T., (Rejected case.) Filed Feb. 23, 1867.			No references.		
124,914 Reed, Thomas L., March 26, 1872, .	823	440	148,428 Dodge, George P., March 10, 1874, .	828	442
References—Mayall, T. J., 39,237. July 14, 1863.			References—Street, E. A., 142,054. Aug. 9, 1873.		
Mayall, T. J., 39,238. July 14, 1863.			148,677 Dodge, Theodore A., March 17,		
Mayall, T. J., 39,238. April 13, 1869.			1874, . . . . .	828	442
Mayall, T. J., 88,888. April 13, 1869.			No references.		
125,331 Reed, Thomas L., April 2, 1872, .	823	440	150,304 Dodge, Theodore A., April 28,		
References—Mayall, T. J., 39,237. July 14, 1863.			1874, . . . . .	829	442
Mayall, T. J., 39,238. July 14, 1863.			No references.		
125,594 Mayall, Thomas J., April 9, 1872, .	823	440	150,481 Chaffee, Edwin M., May 5, 1874, .	829	442
No references.			References—Mayall, 39,238. July 14, 1863.		
125,596 Mayall, Thomas J., April 9, 1872, .	824	440	151,383 Greacen, John, Jr., May 26, 1874, .	829	442
No references.			References—Perry, 114,337. May 2, 1871.		
126,069 McBurney, Charles, April 23, 1872, .	824	440	Duffy, M. C. Jan. 25, 1870.		
No references.			154,725 Street, Charles B., Sept. 1, 1874, .	829	443
127,755 Forsyth, James B., June 11, 1872, .	824	440	References—12,828 of 1849. English.		
References—Mayall, T. J., 39,237. July 14, 1863.			156,017 Dodge, Theodore A., and Street,		
Mayall, T. J., 39,238. July 14, 1863.			Edwin, A., Oct. 20, 1874, . . . . .	830	443
Mayall, T. J., 88,887. April 13, 1869.			No references.		
Mayall, T. J., 88,888. April 13, 1869.			158,631 Downing, Leverett H., Jan. 12,		
130,303 Libby, Asa S., Aug. 6, 1872, .	824	440	1875, . . . . .	830	443
No references.			References—Chaffee, 78,260. May 26, 1868.		
132,006 Harris, Isaac, B., Oct. 8, 1872, .	825	440	Dodge, 148,428. March 10, 1874.		
References—Harris, 42,900. May 24, 1864.			159,345 Murphy, John, Feb. 2, 1875, .	830	443
Smith, G. C., 92,381. July 6, 1869.			References—Mayall, 548. Feb. 26, 1861.		
Smith, G. C., 90,031. May 11, 1869.			Chaffee, E. M. (Rejected case). Filed		
Allen, A. F., 100,224. March 1, 1870.			Feb. 1, 1868.		
1,861 of 1857. English.			160,526 Joslin, Jacob D., March 9, 1875, .	830	443
133,044 Libby, Asa S., Nov. 12, 1872, .	825	440	References—Boyd, 25,239. Aug. 30, 1859.		
No references.			Mayall, 610. March 5, 1861.		

P.	C.	P.	C.
161,272 Reed, John Van D., March 23, 1875, . . . . .	831 443	197,245 Callahan, Cornelius, Nov. 20, 1877, .	835 445
No references.		No references.	
7,442 ( Reed, John Van D., Dec. 19, 161,272 ) 1876, (R) . . . . .	831 443	200,493 Wakeman, Harwood, Feb. 19, 1878, . . . . .	836 445
No references.		No references.	
161,273 Reed, John Van D., March 23, 1875, . . . . .	831 443	203,094 Wakeman, Harwood, April 30, 1878, . . . . .	836 445
No References.		No references.	
164,946 Stone, Joseph M., June 29, 1875, .	832 443	207,489 Bourguignon, Wendel, Aug. 27, 1878, . . . . .	836 445
References—Cole et al, 2,046 of 1864. English. Cole et al, 83,132. Oct. 20, 1868.		References—2,327 of 1853. English. 1,858 of 1860. "	
165,159 Downing, Leverett H., July 6, 1875, . . . . .	832 443	209,859 Callahan, Cornelius, Nov. 12, 1878, .	836 445
References—Alden, 28,231. May 8, 1860. Alden, 28,432. May 22, 1860.		No references.	
Perry & Manheim, 92,353. July 6, 1869. Perry & Manheim, (R) 4,148. Oct. 4, 1870.		209,953 Beatty, Robert P., and Hulenbeck, John H., Nov. 19, 1878, . . . . .	837 445
165,324 Greacen, John, Jr., July 6, 1875, .	832 444	References—Mayall, 88,887. April 13, 1869.	
No References.		213,363 Wakeman, Harwood, March 18, 1879, . . . . .	837 445
166,580 Baker, Seth W., Aug. 10, 1875, .	833 444	References—Wakeman, 188,446. March 13, 1877. Edge, 142,450. Sept. 2, 1873.	
References—Mayall, 610. March 5, 1861.		218,661 Callaham, Cornelius, Aug. 19, 1879, .	837 445
169,760 Baker, Seth W., Nov. 9, 1875, .	833 444	References—Gillespie, 173,615. Feb. 15, 1876.	
References—Alden, 28,231. May 8, 1860. Gately, 26,178. Nov. 22, 1859.		219,596 Perry, Edward L., Sept. 16, 1879, .	837 445
1,882 of 1857. English. 6,683 of 1851. French.		References—Gillespie, 173,615. Feb. 15, 1876.	
Mayall, 610. May 5, 1861. Baker, 166,580. Aug. 10, 1875.		221,125 Taylor, James, Oct. 28, 1879, .	838 446
170,803 Baker, Seth W., Dec. 7, 1875, .	833 444	No references.	
References—2,034 of 1859. English. 1,378 of 1864. "		Interference with application of W. Bourguignon. Decision favorable to Taylor.	
Gujer, 20,267. May 18, 1858.		222,770 Callahan, Cornelius, Dec. 23, 1879, .	838 446
173,615 Gillespie, James E., Feb. 15, 1876, .	833 444	No references.	
References—Gujer, 20,267. May 18, 1858. Reed, 161,272. March 23, 1875.		223,262 Wakeman, Harwood, Jan. 6, 1880, .	838 446
183,876 Wakeman, Harwood, Oct. 31, 1876, . . . . .	834 444	References—Wakeman, 188,446. March 13, 1877. Interference with application of C. P. Grout, and E. C. Smith. Decision favorable to Wakeman.	
No References.		225,698 Gillespie, James E., March 23, 1880, . . . . .	838 446
184,907 Reed, Thomas L., Nov. 28, 1876, .	834 444	References—Mayall, 26,276. Nov. 29, 1859. Mayall, (R) 5,111. Oct. 22, 1872. 2,065 of 1863. English. 640 of 1871. " 3,043 of 1873. "	
No references.		231,736 Taylor, James, Aug. 31, 1880, .	839 446
186,123 Gately, Dennis C., Jan. 9, 1877, .	834 444	No references.	
References—1,861 of 1857. English. Mayall, 27,553. March 20, 1860.		255,357 Walsh, Maurice J., March 21, 1882, .	839 446
Mayall, 39,238. July 14, 1863. Mayall, 88,888. April 13, 1869.		References—Merrens, 194,363. Aug. 21, 1877.	
Forsyth, 79,220. June 23, 1868. Forsyth, 127,755. June 11, 1872.		267,343 Harbison, Andrew, Nov. 14, 1882, .	839 446
1,959 of 1860. English. 1,378 of 1864. "		No references.	
2,046 of 1864. "		267,473 Westinghouse, George, Jr., Nov. 14, 1882, . . . . .	839 446
186,492 Murphy, John, Jan. 23, 1877, .	834 444	References—Wakeman, 200,493. Feb. 19, 1878.	
References—Dodge & Street, 156,107. Oct. 20, 1874. Downing, 165,159. July 6, 1875. Dodge, 148,428. March 10, 1874. Street, 154,725. Sept. 1, 1874.		268,366 Gillespie, James E., Nov. 28, 1882, .	840 447
188,446 Wakeman, Harwood, March 13, 1877, . . . . .	835 445	No references.	
References—Mayall, 31,552. Feb. 26, 1861. Downs, 134,654. Jan. 7, 1873.		278,312 Callahan, Cornelius, May 29, 1883, .	840 447
188,554 Wakeman, Harwood, March 20, 1877, . . . . .	835 445	References—Mayall, 39,238 July 14, 1863. Merrens, 196,363. Aug. 21, 1877.	
References—3,324 of 1871. English.		284,050 Nichols, Mark M., Aug. 28, 1883, .	840 447
194,363 Merrens, Henry J., Aug. 21, 1877, .	835 445	No references.	
References—Mayall, 31,552. Feb. 26, 1861.			

P.	C.	P.	C.
289,381 Bodifield, Charles T., and Arnett, John, Dec. 4, 1883, . . . . .	840 447	323,149 Holt, Albert T., July 28, 1885, . . . . .	845 449
References—Becker, 45,218. Nov. 29, 1864. Wakeman, 188,446. March 13, 1877. Westinghouse, Jr., 267,473. Nov. 14, 1882.		References—Cowen, 226,038. March 30, 1880. 1,861 of 1857. English. McBurney, 27,810. April 1c, 1860. Harris, 42,900. May 24, 1864.	
289,854 Perry, Edward L., Dec. 11, 1883, 841 447		325,591 Coultas, Joseph A., Sept. 1, 1885, 846 449	
References—Becker, 45,218. Nov. 29, 1864. Wakeman, 223,262. Jan. 6, 1880. Harris, 3,886 of 1873. English. Wakeman, 188,446. March 13, 1877. Wakeman, 200,493. Feb. 19, 1878.		References—Bodifield & Arnett, 289,381. Dec. 4, 1883. Mayall, 31,552. Feb. 26, 1861. Greacen, 165,324. July 6, 1875. Perry, 289,854. Dec. 11, 1884. Harris, 3,886 of 1873. English.	
296,370 Walker, William J., April 8, 1884, 841 447		330,910 Levavasseur, Eugene, Nov. 24, 1885, . . . . .	846 450
References—Randolph, 95,265. Sept. 28, 1869. Randolph, (R.) 4,127. Sept. 20, 1870. Randall, 159,216. June 26, 1875.		References—Root, 96,037. Oct. 19, 1869. Downs, 134,654. Jan. 7, 1873.	
296,436 Murphy, John, April 8, 1884, 841 447		331,374 Bruegger, Abraham, Jr., Dec. 1, 1885, . . . . .	846 450
References—Stone, 164,946. June 29, 1875. Reed, 184,997. Nov. 26, 1876.		References—Mayall, 27,653. March 20, 1860. Gately, 186,123. Jan. 9, 1877. Murphy, 189,345. Feb. 2, 1875.	
298,321 Stuck, George A., May 6, 1884, 841 447		334,233 Jones, James, Jan. 12, 1886, . . . . .	846 450
References—Praker, 166,580. Aug. 10, 1875.		References—Reed, 64,362. April 30, 1867. Mayall, 31,552. Feb. 26, 1861. Mayall, 88,887. April 13, 1869.	
299,017 Schenck, Junius, and Stowe, Ben- jamin L., May 20, 1884, . . . . .	842 448	334,510 Bruegger, Abraham, Jr., Jan 19, 1886, . . . . .	847 450
No references.		No references.	
299,018 Schenck, Junius, and Stowe, Ben- jamin L., May 20, 1884, . . . . .	842 448	334,951 Holt, Albert T., Jan. 26, 1886, 847 450	
No references.		References—McBurney, 27,819. April 10, 1860. Harris, 42,900. May 24, 1864. Beatty & Haulenbeck, 209,953. Nov. 17, 1878. Mayall, 39,238. July 14, 1863. Mayall, 31,556. Feb. 26, 1861.	
302,718 Flagg, George H. P., July 29, 1884, 842 448		338,310 Smith, James M., March 23, 1886, 847 450	
References—Taylor, 55,740. June 19, 1866.		References—McBurney, 24,222. May 31, 1859. Bours, 80,901. Aug. 11, 1868. Westinghouse, 267,473. Nov. 14, 1882. Downs, 134,654. Jan. 7, 1873.	
305,068 Fullerton, George A., Sept. 16, 1884, . . . . .	843 448	338,312 Spadone, Amadee, March 23, 1886, . . . . .	848 451
References—Hawkins, 141,712. Aug. 12, 1873. Crooker, 23,211. Oct. 12, 1880. Winslow (R.) 9,752. June 14, 1881. Ambler, 238,200. March 1, 1881.		No References.	
306,236 Fries, William A., Oct. 7, 1884, 843 448		344,250 Cowen, Robert, Jan. 22, 1886, 847 451	
No references.		No references.	
308,331 Teter, William L., Nov. 18, 1884, 843 448		345,063 Knipe, William A., July 6, 1886, 848 451	
References—Schenck & Stowe, 299,017. May 20, 1884. Callahan, 218,661. Aug. 19, 1879. Gillespie, 173,615. Feb. 15, 1876. Mayall, 88,887. April 13, 1869.		References—Gilmore, 310,668. Jan. 13, 1885. Pease, 258,315. March 23, 1882. 2,071 of 1880. English. Interference with application of George A. Fullerton: Decision favorable to Fullerton.	
308,729 Arms, George, Dec. 2, 1884, . . . . .	843 448	359,222 Meacom, George, March 8, 1887, 848 451	
No references.		References—Gillespie, 173,615. Feb. 15, 1876. Callahan, 278,312. May 29, 1883.	
308,730 Arms, George, Dec. 2, 1884, . . . . .	844 448	367,301 Knight, Herbert, July 26, 1887, 848 451	
References—Alden, 28,432. May 22, 1860. Reed, 124,614. March 26, 1872. Gately, 186,123. Jan. 9, 1877. Murphy, 296,436. April 8, 1884. Coles et al., 83,132. Oct. 20, 1868.		References—Downe, 134,654. Jan. 7, 1873. Levavasseur, 380,910. Nov. 24, 1885.	
309,087 Perry, Edward L., Dec. 9, 1884, 844 449		368,364 Wood, Edward L., Aug. 16, 1887, 849 452	
References—Merrines, 194,363. Aug. 21, 1877. Gately, 133,219. Nov. 19, 1874. Greacen, 164,324. July 6, 1875.		No references.	
314,440 Eames, Elisha D., March 24, 1885, 844 449		375,877 Judson, Thomas S., Jan. 3, 1888, 849 452	
References—Taylor, 221,125. Oct. 28, 1879. Greacen, 151,383. May 26, 1874. Taylor, 141,163. Oct. 28, 1873.		References—Riley. Feb. 6, 1833. Mayall, 31,552. Feb. 26, 1861. Greacen, 165,324. July 6, 1875. 1,858 of 1860. English. Interference with application of Alex. Spencer. Decision favorable to Judson.	
316,566 Pierce, Charles P., April 28, 1885, 844 449			
No references.			
318,458 Fletcher, Thomas, May 26, 1885, 845 449			
No references.			
322,936 Hoyt, Lewis S., July 28, 1885, . . . . .	845 449		
No references.			

- 376,401 Wilder, Francis M. and Benjamin, George H., Jan. 10, 1888, . . . 849 452  
 References—McBurney, 24,222. May 31, 1859.  
 Wood, 368,364. Aug. 16, 1887.
- 377,801 Crampton, James, Feb. 14, 1888, 849 452  
 References—Merrens, 194,363. Aug. 21, 1877.  
 Mayo, 24,132. May 24, 1859.  
 Mayall, 31,552. Feb. 26, 1861.  
 Eames, 314,440. March 23, 1885.  
 Coultas, 325,591. Sept. 1, 1885.
- 386,304 Emerson, James E., and Midgley, Thomas, July 17, 1888, . . . 850 452  
 References—479 of 1878. English.  
 6,006 of 1884. “  
 1,181 of 1885. “
- 386,306 Emerson, James E., and Midgley, Thomas, July 17, 1888, . . . 850 452  
 References.
- 386,307 Emerson, James E., and Midgley, Thomas, July 17, 1888, . . . 850 452  
 References.
- 398,423 Midgley, Thomas, Feb. 26, 1889, 850 452  
 References—1,906 of 1868. English.  
 3,543 of 1868. “
- 398,424 Midgley, Thomas, Feb. 26, 1889, 851 453  
 References.
- 398,425 Midgley, Thomas, Feb. 26, 1889, 851 453  
 References—Callahan, 222,770. Dec. 23, 1879.  
 Merrens, 194,363. Aug 21, 1877.
- 398,426 Midgley, Thomas, Feb. 26, 1889, 851 453  
 References—Chaffee, 150,481. May 5, 1874.  
 Mayo, 24,132. May 24, 1859.
- 398,428 Midgley, Thomas, Feb. 26, 1889, 851 453  
 References—Wakeman, 213,663. March 18, 1879.  
 Wakeman, 223,262. Jan. 6, 1880.
- 398,430 Midgley, Thomas, Feb. 26, 1889, 852 453  
 References—Wakeman, 213,363. March 18, 1879.  
 Wakeman, 223,262. Jan. 6, 1880.
- 398,431 Midgley, Thomas, Feb. 26, 1889, 852 453  
 References—Emerson & Midgley, 371,181. Oct. 11, 1887.  
 Emerson & Midgley, 362,576. May 10, 1887.  
 Emerson & Midgley, 386,305. July 17, 1888.  
 Merrens, 194,363. Aug. 21, 1877.
- 417,796 Taft, Edward A., Dec. 24, 1889, . 852 453  
 References—Mayall, 39,238. July 14, 1863.  
 Gillespie, 173,615. Feb. 15, 1876.  
 Callahan, 218,661. Aug. 19, 1879.  
 Callahan, 222,770. Dec. 23, 1879.  
 Emerson & Midgley, 386,304. July 17, 1888.  
 Merrens, 194,363. Aug. 21, 1877.
- 420,863 Cheever, Henry D., Feb. 4, 1890, 852 453  
 References—Suhr, 397,822. Feb. 12, 1889.  
 Johns, 262,429. Aug. 8, 1882.  
 Murphy, 101,905. Aug. 12, 1870.  
 Moore, 284,970. Sept. 11, 1883.
- 421,988 Strang, Lew K., Feb. 25, 1890, . 853 454  
 References—Lake, 178,858. June 20, 1876.  
 Dodge, 192,573. July 3, 1877.  
 Scruton, 282,673. Aug. 7, 1883.
- 424,044 Almond, Thomas R., March 25, 1890, . . . 853 454  
 References—Taylor, 221,125. Oct. 28, 1879.  
 Levavasseur, 330,910. Nov. 24, 1885.  
 Smith, 413,576. Oct. 22, 1889.
- 425,283 Wright, Rufus, April 8, 1890, . . . 853 454  
 References—Gleason, 46,558. Feb. 28, 1865.  
 Beatty & Haulenbeck, 209,953. Nov. 19, 1878.  
 Callahan, 222,270. Dec. 23, 1879.  
 Murphy, 296,439. April 8, 1884.  
 Emerson & Midgley, 386,304. July 17, 1888.  
 Wood, 368,364. Aug. 16, 1887.  
 Taylor, 221,125. Oct. 28, 1879.  
 Stuck, 298,321. May 6, 1884.
- 434,748 Almond, Thomas R., Aug. 19, 1890, . . . . . 853 454  
 No references.
- 438,836 Botsford, Frederick G., Oct. 21, 1890, . . . . . 854 454  
 References—Mayall, 31,552. Feb. 26, 1861.  
 McLean, (R) 6,995. Feb. 8, 1876.
- 459,536 Simon, Charles F., Sept. 15, 1891, 854 454  
 References—Chaffee, 150,481. May 5, 1874.  
 Holt, 323,149. July 28, 1885.  
 Cobb, 408,376. Aug. 6, 1889.
- 460,924 Stowe, Benjamin L., Oct. 6, 1891, 854 454  
 No references.
- 460,925 Stowe, Benjamin L., Oct. 6, 1891, 854 454  
 No references.
- 562,951 Sampson, Winslow F., Nov. 10, 1891, . . . . . 855 454  
 References—Crooker, (R) 11,144. Feb. 10, 1861.
- 
- Hose Patches.
- 1,598 Bulkley, Ralph, May 8, 1840, . . . 963 357  
 No references.
- 31,143 Mackay, John S., Jan. 15, 1861, 963 357  
 References—Roberts, I., (Rejected case.) Filed April 3, 1857.  
 Baker, G. O., (Rejected case.) Filed Jan. 25, 1859.  
 Youngman, J., (Rejected case.) Filed Sept. 13, 1860.
- 42,735 Rubsam, Christian, May 10, 1864, 963 357  
 No references.
- 64,285 Collins, Patrick H., April 30, 1867, 964 357  
 References—Frentz, P., 57,886. Sept. 11, 1866.
- 69,896 Bitter, Harry, Oct. 15, 1867, . . . 964 357  
 No references.
- 92,338 Moore, Stephen, July 6, 1869, . . . 964 357  
 No references.
- 115,715 Davol, William C., Jr., June 6, 1871, 964 358  
 No references.
- 141,536 Bellmere, John F., and Fleer, Francis R., Aug. 5, 1873, . . . 965 358  
 References—Button, J. B., 122,435. Jan. 2, 1872.
- 146,895 Flynn, William, Jan. 27, 1874, 965 358  
 No references.
- 150,255 Phillips, Oscar E., April 28, 1874, 965 358  
 No references.
- 158,554 Whitecomb, William W., Jan. 5, 1875, . . . . . 965 358  
 References—Dean, Melvill, (Rejected case.) Filed April 29, 1867.

- 161,045 Knapp, George S., March 23, 1875, 966 358  
No references.
- 164,028 Peake, James B., June 1, 1875, 966 358  
No references.
- 172,669 Stevens, David A., Jan. 25, 1876, 966 358  
References—Lewis, 167,262. Aug. 31, 1875.
- 192,209 Work, Alanson, June 19, 1877, 966 358  
References—Stevens, 172,669. Jan. 25, 1876.
- 194,697 Logan, John F., Aug. 28, 1877, 967 358  
References—Davol, 115,715. June 6, 1871.  
Stevens, 172,669. Jan. 25, 1876.  
Work, 192,209. June 19, 1877.
- 204,770 Smith, Samuel C., June 11, 1878, 967 358  
References—Stevens, 172,669. June 25, 1876.  
Work, 192,209. June 19, 1877.  
Logan, 194,697. Aug. 28, 1877.
- 210,422 Hayes, Daniel D., Dec. 3, 1878, 967 358  
References—Bellmere & Fleer, 141,536. Aug. 5, 1873.
- 216,639 Allaire, Charles B., June 17, 1879, 967 359  
References—Davol, 115,715. June 6, 1871.  
Collins, 64,285. April 30, 1867.
- 224,397 Crook, Charles, Feb. 10, 1880, 968 359  
References—Moore, 92,338. July 6, 1869.
- 234,799 Neely, Thaddeus A., Nov. 23, 1880, 968 359  
References—Davol, 115,715. June 6, 1871.  
Collins, 64,285. April 30, 1867.
- 238,770 Fairbanks, John A., March 15, 1881, 968 359  
References—Work, 162,209. June 19, 1877.  
Hayes, 210,422. Dec. 3, 1878.
- 255,465 Shepherd, John, and Miller, Julius V., March 28, 1882, 968 359  
References—Davol, 115,715. June 6, 1871.  
Whitecomb, 158,554. Jan. 5, 1875.  
Knapp, 161,045. March 23, 1875.  
Logan, 194,697. Aug. 28, 1877.
- 257,602 Nersinger, Lawrence, May 9, 1882, 969 359  
No references.
- 294,937 Towle, George W., Jr., March 11, 1884, 969 359  
References—Mueller 279,404. June 12, 1883.  
Bellmere & Fleer, 141,536. Aug. 5, 1873.  
Earle, 172,982. Feb. 1, 1876.
- 312,406 Towle, George W., Jr., Feb. 17, 1885, 969 359  
References—Towle, 294,937. March 11, 1884.
- 326,012 Brooks, Samuel T., Sept 8, 1885, 969 359  
No references.
- 327,899 Robertson, William H., Oct. 6, 1885, 970 360  
References—Collins, 64,285. April 30, 1867.  
Mackay, 31,143. Jan. 15, 1861.  
Towle, 294,937. March 11, 1884.
- 329,938 Nicolet, Albert, Nov. 10, 1885, 970 360  
References—Allaire, 216,639. June 17, 1879.
- 334,873 Knight, William W., Jan. 26, 1886, 970 360  
References—Robertson, 327,899. Oct. 6, 1885.
- 345,073 Phillips, Cornelius J., July 6, 1886, 971 360  
References—Phillips, 150,255. April 28, 1874.  
Mackay, 31,143. Jan. 15, 1861.  
2,945 of 1860. English.
- 358,618 Loomis, William H., March 1, 1887, 971 360  
No references.
- 389,102 Purdy, William J., Sept. 4, 1888, 971 360  
No references.
- 402,673 Hudson, Charles E., May 7, 1889, 971 360  
References—Caldwell, 197,717. Dec. 4, 1887.  
Pierce, 316,566. April 28, 1885.  
Preston, 282,466. July 31, 1883.  
Preston, 282,407. July 31, 1883.  
McComb, 130,519. Aug. 13, 1872.  
Philip, 163,803. May 25, 1875.  
Barbour, 289,600. Dec. 4, 1883.
- 447,818 Gerstung, Henry Jr., March 10, 1891, 972 360  
References—Crook, 224,397. Feb. 10, 1880.  
Hayes, 210,422. Dec. 3, 1878.
- 454,279 Lawrence, John, June 16, 1891, 972 361  
References—Fairbanks, 238,770. March 15, 1881.  
Neely, 234,799. Nov. 23, 1880.  
Hayes, 210,422. Dec. 3, 1878.  
Collins, 64,285. April 30, 1867.
- 452,307 Lee, William, May 12, 1891, 972 360  
No references
- Designs.
- 3,535 Pratt, Samuel F., June 8, 1869, 973 973  
No references.
- 13,386 Pope, John L., Oct. 31, 1882, 973 973  
No references.
- 13,387 Pope, John L., Oct. 31, 1882, 974 974  
No references.
- 13,390 Pope, John L., Oct. 31, 1882, 974 974  
No references.
- 13,409 Pope, John L., Nov. 14, 1882, 975 975  
No references.
- 13,410 Pope, John L., Nov. 14, 1882, 975 975  
No references.
- 13,412 Pope, John L., Nov. 14, 1882, 976 976  
No references.
- 13,413 Pope, John L., Nov. 14, 1882, 976 976  
No references.
- 13,414 Pope, John L., Nov. 14, 1882, 977 977  
No references.
- 13,432 Pope, John L., Nov. 14, 1882, 977 977  
No references.
- 13,433 Pope, John L., Nov. 14, 1882, 978 978  
No references.
- 16,295 Maris, Jared, Sept. 29, 1885, 978 978  
References—Nycum, 153,842. Aug. 4, 1874.
- 16,296 Maris, Jared, Sept. 29, 1885, 979 979  
References—Holman et al., 134,282. Dec. 24, 1872.
- 16,430 Maris, Jared, Dec. 29, 1885, 979 979  
References—Wood & Dolby, 20 O. G. 523.
- 16,431 Maris, Jared, Dec. 29, 1885, 980 980  
References—Vick, 121,025. Nov. 14, 1871.  
Cram, 151,560. June 2, 1874.  
Lane, 278,665. May 29, 1883.

	P. C.		P. C.
16,432 Maris, Jared, Dec. 29, 1885, . . .	980 980	5,767 of 1889. English. 42,758. German.	
References—Beckwith, 27,611. March 27, 1860. Maris, 16,344. Oct. 20, 1885.		Stoliker, 50,425. Oct. 10, 1865. Gallup, 303,503. Aug. 12, 1884. Bartlett, 434,974. Aug. 26, 1890.	
16,467 Maris, Jared, Jan. 12, 1888, . . .	981 981	466,613 Meigs, George W., and Ziegler, John G., Jan. 5, 1892, . . . . .	3 2
No references.		References—Straus, 449,502. March 31, 1891. Hancock & Salomon, 232,266. Sept. 14, 1880.	
16,468 Maris, Jared, Jan. 12, 1886, . . .	981 981	466,789 Jeffery, Thomas B., Jan. 12, 1892, 3 3	
No references.		References—"Cyclist," Feb. 4, 1891, page 11, "The British Self-fixing Pneumatic Tire."	
18,746 Smith, William E., Nov. 20, 1888, 982 982		466,822 Gendron, Peter, Jan. 12, 1892, . . . . .	4 3
No references.		References—Emerson & Midgley, 386,304. July 17, 1888. Allen, 100,244. March 1, 1870. Montgomery, 438,935. Oct. 21, 1890.	
18,820 Starley, John M., Dec. 18, 1888, . . .	982 982	466,824 Gendron, Peter, Jan. 12, 1892, . . . . .	4 3
No references.		References—Featherstone, 414,505. Nov. 5, 1889. Kohler, 400,091. March 26, 1889.	
20,678 Coops, Charles, April 14, 1891, . . .	983 983	466,893 Lybe, Daniel L., and Nickles, William, O., Jan. 12, 1892, . . . . .	5 3
References—Richard, 252,624. Jan. 24, 1882. Duryea, 357,819. Feb. 15, 1887. Warwick, 399,453. March 12, 1889. Warwick, 302,472. May 8, 1887.		References—Fowler, 240,990. May 3, 1881.	
20,824 Phillips, Walter, June 9, 1891, . . .	983 983	466,983 Owlesley, Harry B., Jan. 12, 1892, . . . . .	5 3
References—Richard, 252,624. Jan. 24, 1882. Duryea, 357,819. Feb. 15, 1887. Warwick, 399,453. March 12, 1889. Warwick, 302,472. May 8, 1887.		References—Reynolds, 439,188. Oct. 28, 1890. Duryea, 432,125. July 10, 1890.	
21,059 Willis, Ernest J., Sept. 22, 1891, . . .	984 984	466,989 Cox, Marion W., Jan. 12, 1892, . . . . .	6 4
No references.		References—Harper, 91,438. June 15, 1860. Teese, 225,771. March 23, 1880. Halloway, 274,196. March 20, 1883. Way, 71,562. Nov. 26, 1867. Haynes, 98,592. Jan. 5, 1870.	
<hr/>			
<b>Cycle Monthly,</b>			
January, 1892 to July, 1893.			
<hr/>			
466,500 Lymburner, Ferdinand L., Jan. 5, 1892, . . . . .	1 1	467,015 Newkirk, Isaac R., Jan. 12, 1892, . . . . .	6 4
References—Holden, 183,805. Oct. 31, 1876. Latta, 452,577. May 19, 1891.		References—Jeffery, 454,115. June 16, 1891.	
466,532 Bartlett, William E., Jan. 5, 1892, 1 1		467,083 Colthar, William U., Jan. 12, 1892, . . . . .	6 4
References—4,889 of 1891. English "Cyclist," Feb. 4, 1891, page 11. "Fixing Pneumatic Tire." "Cyclist," June 10, 1891, page 5.		References—"Cyclist," Feb. 4, 1891, page 1. "Ticagin Rim and Tire," Straus, 449,502. March 31, 1891. 608 of 1888. English.	
466,548 Woodward, Charles E. W., Jan. 5, 1893, . . . . .	1 1	467,112 Willoughby, Frank S., and Horsfield, Thomas, Jan. 12, 1892, . . . . .	6 4
No references.		References—Klipstein, 406,742. July 9, 1889.	
Interference with application of Chas. S. Burton. Decision favorable to Woodward.		467,164 Garford, Arthur L., Jan. 19, 1892, . . . . .	7 4
466,556 DeWolfe, Edward R., Jan. 5, 1892, . . . 2 1		References—Thomson, 5,104. May 8, 1847.	
References—Southard & Klausner, 420,610. Feb. 4, 1890. Richwine, 459,614. Sept. 15, 1891. "Cyclist," Feb. 4, 1891, page 11.		467,227 France, Albert L., Jan. 19, 1892, . . . . .	7 4
466,565 Jeffery, Thomas B., Jan. 5, 1892, . . . 2 1		References—Call, 400,763. April 2, 1889. Ewing & Bill, 275,474. April 10, 1883. Martin, 193,013. July 10, 1877. Schaeffer et al., 191,888. June 12, 1877. Aronson, 95,966. Oct. 19, 1869. 8,456 of 1840. English. France et al., 409,320. Aug. 20, 1889.	
References—Bartlett, 48,793. March 24, 1891. Otto, 358,291. Feb. 22, 1887. Duryea, 357,819. Feb. 15, 1887. Strauss, 448,502. March 31, 1891. 608 of 1884. English. Jeffery, 454,135. June 16, 1891. Dunlop, 435,995. Sept. 9, 1890.		467,245 Belden, Frank E., Jan. 19, 1892, . . . . .	7 4
466,577 Schrader, Frederick, Jan. 5, 1892, . . . 2 2		References—Kelley, 321,819. July 7, 1885. Interference with applications of T. W. Morris, O. D. Richardson, E. R. DeWolf and H. Bell. Decision favorable to Belden.	
References—Dunlop, 435,995. Sept. 9, 1890. Latta, 294,641. March 4, 1884. Carmont, 304,989. June 14, 1887. Claypool, 431,223. July 1, 1890. King, 353,071. Nov. 23, 1886. 608 of 1884. English. 12,663 of 1849. " Overman, 437,447. Sept. 30, 1890. Overman, 450,816. April 21, 1891. 19,237 of 1880. English.		467,342 Douglas, Frank, Jan. 19, 1892, . . . . .	8 4
466,598 Bunker, William I., Jan. 5, 1892, . . . 3 2		No references.	
References—Yost, 312,602. Feb. 24, 1885. Gendron, 204,461. March 4, 1884. Thomas, 399,355. March 12, 1889. DeBogory, 416,095. Nov. 26, 1889.		467,343 Douglas, Frank, Jan. 19, 1892, . . . . .	8 5
		No references.	
		467,344 Douglas, Frank, Jan. 19, 1892, . . . . .	8 5
		No references.	
		467,352 Deardorff, Theodore H., and Betts, Arlington U., Jan. 19, 1892, . . . . .	8 5
		References—Swett, 403,078. May 7, 1889. 114 of 1883. English. 2,390 of 1885. "	

- 467,360 Whipple, Jerome, Jan. 19, 1892, . . . 9 5  
 References—Libbey, 339,793. April 13, 1886.  
 Toso, 356,669. Oct. 26, 1886.  
 Ward, 356,363. Feb. 16, 1886.  
 Child, 116,157. June 20, 1871.  
 Anderson, 430,224. June 17, 1890.  
 Kinzer, 278,973. June 5, 1883.  
 Schoenike, 416,755. Dec. 10, 1889.  
 Donahue, 414,799. Nov. 12, 1889.
- 467,402 Garford, Arthur L., Jan. 19, 1892, . . 9 5  
 References—True, 455,027. June 30, 1891.
- 467,403 Garford, Arthur L., Jan. 19, 1892, . . 9 5  
 References—True, 455,027. June 30, 1891.
- 467,502 Gray, John W., Jan. 26, 1892, . . . 10 5  
 References—Gray, 452,876. May 26, 1891.
- 467,642 Palmer, John F., Jan. 26, 1892, . . 10 5  
 No references.
- 467,695 Warwick, George T., Jan. 26, 1892, 10 6  
 References—Parker, 361,233. April 12, 1887.  
 Jeffery, 411,935. Sept. 17, 1889.  
 Norton, 401,295. April 9, 1889.  
 10,273 of 1884. English.  
 Copeland, 307,368. Aug. 2, 1887.  
 5,940 of 1887. English.  
 17,881 of 1887. "  
 46,419. German.  
 Smith, 392,973. Nov. 13, 1888.  
 15,518 of 1884. English.  
 10,885 of 1885. "  
 12,899 of 1887. "  
 Duryea, 402,313. April 30, 1889.  
 Thiemer, 398,195. Feb. 19, 1889.  
 12,582 of 1887. English.  
 Latta, 387,989. Aug. 14, 1888.  
 Warwick, 412,216. Oct. 1, 1889.  
 6,521 of 1888. English.  
 Martin, 359,446. April 6, 1886.  
 Keating, 420,805. Feb. 4, 1890.  
 Warwick, 424,941. April 1, 1890.  
 House, 388,043. April 21, 1888.  
 10,309 of 1888. English.  
 Interference with patent to Keating, 420,805.  
 Feb. 4, 1890. Decision favorable to Keating.
- 467,709 Roethl, Louis, Jan. 26, 1892, . . . 11 6  
 No references.
- 467,725 Latta, Emmet G., Jan. 26, 1892, . . 11 7  
 References—Duya, 432,125. July 15, 1890.  
 Garford, 431,573. July 8, 1890.  
 Harriott, 439,490. Oct. 28, 1890.  
 Vost & Moore, 448,469. March 17, 1891.
- 467,729 Wall, Robert C., Jan. 26, 1892, . . . 12 7  
 References—Singer & Lea, 435,157. Aug. 26, 1890.  
 Wall, 438,720. Oct. 21, 1890.  
 Foley, 369,702. Sept. 13, 1887.  
 Lamson, 450,673. April 21, 1891.  
 Ross, 343,549. June 8, 1886.
- 467,737 Guethler, William, and Gellhaus, Frank, Jan. 26, 1892, . . . . . 12 7  
 References—Loose, 328,415. Oct. 13, 1885.  
 Anderson, 98,657. Jan. 11, 1870.  
 Stanford, 433,829. Aug. 5, 1890.
- 467,742 Lange, Frederick L., Jan. 26, 1892, 13 8  
 References—Dunlop, 435,995. Sept. 9, 1890.  
 Richwine, 442,393. Dec. 9, 1890.  
 Jeffery, 454,115. June 16, 1891.  
 Hancock & Salomon, 332,266. Sept. 14, 1880.  
 Coran & Knuot, 443,499. Dec. 30, 1890.  
 Williams, 349,773. Sept. 28, 1886.  
 6,355 of 1887. English.  
 Haw, 92,606. July 13, 1869.
- 467,761 Whaler, Clarence V. W., Jan. 26, 1892, . . . . . 13 8  
 References—Toso, 351,669. Oct. 26, 1886.
- P. C.
- 467,769 Challiner, Charles, Jan. 26, 1892, . . 13 8  
 References—Southard & Klauser, 420,610. Feb. 4, 1890.  
 13,997 of 1884. English.  
 12,757 of 1886. English.  
 Clark, 192,055. June 19, 1877.  
 Milliner, 193,988. Aug. 7, 1887.  
 Yost, 312,693. Feb. 24, 1885.
- 467,794 Ellis, Seely H., Jan. 26, 1892, . . . 13 8  
 References—Hurrell, 448,580. March 17, 1891.  
 Bell, 443,266. Dec. 23, 1890.
- 467,914 Burwell, George A., Feb. 2, 1892, 15 9  
 References—2,557 of 1889. English.  
 Watts, 441,728. Dec. 2, 1890.  
 3,377 of 1882. English.
- 467,984 Scott, Robert, Feb. 2, 1892, . . . . . 15 9  
 References—Dunlop, 435,995. Sept. 9, 1890.  
 6,355 of 1870. English.  
 Thomas, 399,362. March 12, 1889.  
 Thomas, 399,359. March 12, 1889.  
 Thomas, 399,357. March 12, 1889.  
 Dunlop, 455,559. June 2, 1891.  
 21,253 of 1890. English.  
 "Cyclist," Feb. 4, 1891, page 4.
- 468,196 Foster, William R., Feb. 2, 1892, . . 15 9  
 No references.
- 468,370 Sweetland, Frank, Feb. 9, 1892, . . 15 9  
 References—Thomson, 5,104. May 8, 1847.
- 468,371 Teate, Thomas A., Feb. 9, 1892, . . 16 9  
 References—Work, 22,912. Feb. 8, 1859.  
 Bingham, 280,121. June 26, 1883.
- 468,398 Sherman, Louie A., Feb. 9, 1892, . . 16 9  
 References—Lamplugh, 323,693. Aug. 4, 1885.  
 9,879 of 1885. English.  
 13,056 of 1884. "  
 13,489 of 1887. "
- 468,538 Rodgers, James G., and Grant, Arthur W., Feb. 9, 1892, . . . . . 16 9  
 References—Boland, 396,262. Jan. 15, 1889.  
 Dion, 360,464. July 12, 1887.
- 468,560 Dorchester, Edward G., Feb. 9, 1892, 17 9  
 No references.
- 468,572 Marquardt, Fred, Feb. 9, 1892, . . 17 10  
 No references.
- 468,611 Chamberlain, Edgar, Feb. 9, 1892, 17 10  
 References—Hammelmann, 225,010. March 22, 1880.  
 Schwenffirer, 436,673. Sept. 16, 1890.  
 Ruggally, 321,642. July 7, 1885.
- 468,643 Clement, Felix, Feb. 9, 1892, . . 18 10  
 References—Jeffery, 398,158. Feb. 19, 1889.  
 Jeffery, 406,445. July 9, 1889.  
 Hunter, 414,048. Oct. 29, 1889.  
 Easthope, 15,557. Oct. 3, 1889. English.  
 Fay, 389,331. April 1, 1890.  
 Surbridge, 450,705. April 21, 1891.  
 13,782 of 1886. English.
- 468,671 Mann, Henry F., Feb. 9, 1892, . . 18 10  
 References—Spencer, 288,507. Nov. 13, 1883.  
 Brady, 447,935. March 10, 1891.  
 Campbell & Prindle, 249,895. Nov. 22, 1881.
- 468,672 Mann, Henry F., Feb. 9, 1892, . . 19 10  
 References—Brady, 447,935. March 10, 1891.  
 Sheffield, 260,903. July 11, 1882.
- 468,673 Mann, Henry F., Feb. 9, 1892, . . 19 10  
 References—Sheffield, (R.) 9,571. Feb. 15, 1881.  
 Sheffield, 260,903. July 11, 1882.
- 468,674 Mann, Henry F., Feb. 9, 1892, . . 19 11  
 References—Staser, 401,469. April 16, 1889.  
 Spencer, 386,168. July 17, 1888.  
 Arenchbacher, 434,125. Aug. 11, 1890.

P.	C.
468,680 McCabe, Bartholomew, Feb. 9, 1892, . . .	19 11
No references.	
468,721 Brown, Harvey, Feb. 9, 1892, . . .	20 11
No references.	
468,750 McCain, Joseph, Feb. 9, 1892, . . .	20 11
References—Harrington, 359,863. March 22, 1887. Hill, 407,930. July 30, 1889.	
468,757 Barkman, Albert B., Feb. 9, 1892, . . .	20 11
References—1,008 of 1883. English.	
468,798 Goodrich, Harry C., Feb. 16, 1892, . . .	21 12
References—Goodrich, 455,395. July 7, 1891.	
468,799 Goodrich, Harry C., Feb. 16, 1892, . . .	21 12
References—Edwards, 448,739. March 24, 1891. Boudreau, 385,403. July 3, 1888.	
468,823 O'Connor, Edward J., Feb. 16, 1892, . . .	21 12
No references.	
468,850 Wait, Wesley, Feb. 16, 1892, . . .	22 12
References—Winans, 180,690. Aug. 1, 1876. Winans, 219,18. Oct. 26, 1858. McFarland, 110,059. Dec. 13, 1870. Calkin, 121,275. Nov. 28, 1871. Ammen, 404,150. May 28, 1889.	
468,920 Ross, William L., Feb. 16, 1892, . . .	22 12
No references.	
468,971 Myers, Henry, Feb. 16, 1892, . . .	22 13
References—Thompson, 5,104. May 8, 1847. 6,197 of 1891. English.	
468,994 Hance, William A., Feb. 16, 1892, . . .	23 13
References—Brown, 393,417. Nov. 27, 1888. Kibb, 393,837. Dec. 4, 1888 Kibb, 402,460. April 30, 1889. 35,009. German.	
468,998 McGlinchey, Charles E., Feb. 16, . . .	23 13
No references.	
469,029 Messmer, Alex. L. H., Feb. 16, 1892, . . .	23 13
References—Gendron, 294,461. March 4, 1884. Lyon, 418,982. Jan. 7, 1890. Bartlett, 434,974. Aug. 26, 1890. Leigh McDowell, 310,862. Jan. 13, 1885. Owen, 365,091. June 21, 1887. 4,898 of 1876. English. Barrett & Varley, 345,476. July 13, 1876. Whiton, 345,351. July 13, 1886. Gager, 452,001. May 12, 1891. Bartlett, 434,974. Aug. 26, 1890. Latta, 280,033. July 3, 1883.	
469,165 Morris, Jesse T., Jr., Feb. 16, 1892, . . .	23 13
References—Weir, 460,243. Sept. 29, 1891. Overman, 437,447. Sept. 30, 1890. 6,103 of 1887. English. 18,572 of 1888. ".	
469,192 Walsh, Patrick R., Feb. 16, 1892, . . .	24 13
No references.	
469,227 Bouse, William G., Feb. 23, 1892, . . .	24 13
References—Schemmel, 381,956. May 1, 1888.	
469,295 Douglas, Frank, Feb. 23, 1892, . . .	24 14
References—Knous, 281,889. July 24, 1883. Jeffery, 365,074. June 21, 1887. Latta, 323,162. July 28, 1885.	
469,339 Douglas, Frank, Feb. 23, 1892, . . .	24 14
References—8,112 of 1887. English. 3,344 of 1887. Latta, 315,304. April 7, 1885. Latta, 312,277. Feb. 17, 1885. Latta, 324,568. Aug. 18, 1885.	
469,494 Wilmot, Frank A., Feb. 23, 1892, . . .	25 14
References—Goodrich, 455,426. July 7, 1891. Cummins, 307,021. Oct. 21, 1884.	
469,516 Dorr, George W., Feb. 23, 1892, . . .	25 14
References—Thomson, 5,104. May 8, 1847. 6,197 of 1891. English. DeWolfe, 460,714. Oct. 6, 1891. Dunlop, 435,995. Sept. 9, 1890. 17,370 of 1889. English.	
469,592 Parkes, Walter, Feb. 23, 1892, . . .	25 14
No references.	
469,624 Bunker, William I., Feb. 23, 1892, . . .	25 14
References—Keating, 420,805. Feb. 4, 1890. Semple, 447,741. March 3, 1891. Easthope, 423,471. March 18, 1890. Worth, 444,868. Jan. 20, 1891. O'Brien, 413,414. Oct. 22, 1889. Andrews, 310,868. Jan. 20, 1885. Cooley, 261,136. July 18, 1882. Harriot, 458,806. Sept. 1, 1891. Latta, 443,663. Dec. 30, 1890. Matthews, 463,710. Nov. 24, 1891. Bullard, 443,815. Dec. 30, 1890. Donnelly, 447,234. Feb. 24, 1891. Smith, 392,973. Nov. 13, 1888.	
469,626 Copeland, James S., Feb. 23, 1892, . . .	26 15
References—Rodecap, 376,551. Jan. 17, 1888. Owen, 330,346. Nov. 10, 1885. 13,962 of 1885. English.	
469,627 Douglas, Frank, Feb. 23, 1892, . . .	26 15
References—Richardson, 8,251. July 29, 1851.	
469,628 Douglas, Frank, Feb. 23, 1892, . . .	26 15
References—Humphrey, 328,682. Oct. 20, 1885. Hance, 454,431. June 16, 1891.	
469,629 Douglas, Frank, Feb. 23, 1892, . . .	27 15
References—Bolte, 457,835. Aug. 18, 1891. Reguiser, 457,835. Jan. 19, 1886. Latta, 455,882. July 14, 1891.	
469,630 Douglas, Frank, Feb. 23, 1892, . . .	27 15
References—Owen, 398,745. Feb. 26, 1889. Keating, 426,670. April 29, 1891.	
469,651 Israel, Abraham, Feb. 23, 1892, . . .	27 15
References—Stewart, 188,827. March 27, 1877.	
469,708 Merrill, Parker, March 1, 1892, . . .	29 17
References—Nelson, 235,167. Dec. 7, 1880. Bean, 245,434. Aug. 9, 1881.	
469,715 Perry, Richard D., March 1, 1892, . . .	29 17
No references.	
469,722 Riess, Rudolph W., March 1, 1892, . . .	30 17
No references.	
469,753 Smith, William, March 1, 1892, . . .	30 17
References—Warwick, 386,097. July 10, 1888. Bell, 443,266. Dec. 23, 1890. Watkins, 417,655. Dec. 17, 1889. 3,688 of 1884. English.	
469,760 Weinedel, Charles, March 1, 1892, . . .	30 18
No references.	
469,883 Edwards, William J., March 1, . . .	31 18
References—King, 37,807. Nov. 22, 1887. 16,445 English. Richardson, 382,902. May 15, 1888. 15,941 of 1887. English. 16,309 of 1888.	
470,070 Moffat, George D., and Huss, Rudolph W., March 1, 1892, . . .	31 18
References—5,468 of 1882. English.	

- 470,185 Edwards, William J., March 8, 1892, 31 18  
References—Latta, 346,292. July 27, 1886.
- 470,249 Martinez, Richard P., March 8, 1892, 32 18  
References—Pratt & Thompson, 41,940. March 15, 1864.  
Ramsay, 126,741. May 14, 1872.  
21,621. German.  
13,027 of 1885. English.
- 470,317 Burton, Thomas, March 8, 1892, 32 18  
References—Jeffery, 398,158. Feb. 19, 1889.
- 470,483 Grant, Arthur W., and Jefferies,  
Daniel P., March 8, 1892, . . . . . 32 18  
References—Owen, 305,001. June 21, 1887.  
King, 333,071. Nov. 23, 1886.  
Otto, 358,291. Feb. 22, 1887.  
11,631 of 1887. English.  
Grout, 1,103 of 1874. . . . .  
1,324 of 1859. . . . .  
Valigaret, 308,862. Dec. 2, 1884.  
41,391. April 30, 1887. German.  
Richards, 252,624. Jan. 24, 1882.
- 470,707 Saunders, Samuel L., March 15, 1892, 33 19  
No references.
- 470,836 Hall, Arthur W., March 15, 1892, 33 19  
No references.
- 470,841 Madden, Dutton, March 15, 1892, . . . . . 33 19  
References—Garwood, 435,493. Sept. 2, 1890.  
Hemming, 92,528. July 13, 1869.
- 470,878 Mease, Ezra W., March 15, 1892, . . . . . 34 19  
No references.
- 470,915 McIntire, William C., March 15, 1892, 34 19  
No references.
- 471,075 Curtis, Albert B., and Perkins, Al-  
best, March 15, 1892, . . . . . 34 19  
References—10,369 of 1888. English.  
16,035 of 1887. . . . .
- 471,117 Hessong, James, March 22, 1892, . . . . . 34 20  
References—Williams, 300,293. June 10, 1884.  
Woodard, 201,457. Jan. 1, 1884.  
Jefferson, 243,569. June 28, 1881.  
Williams, 337,223. March 2, 1886.  
Root, 404,657. June 4, 1880.  
Smith & Weston, 380,358. April 3, 1888.
- 471,249 Zillgitt, Gustav, March 22, 1892, . . . . . 35 20  
References—Jeffery, 406,445. July 9, 1889.  
Wood et al, 439,922. Nov. 4, 1890.  
Martin, 124,500. March 12, 1872.
- 471,292 Shorey, Charles R., March 22, 1892, 35 20  
References—4,873 of 1880. English.  
3,730 of 1882. . . . .  
Latta, 315,304. April 7, 1885.  
White, 437,827. Oct. 7, 1890.
- 471,358 Kimball, Stephen H., March 22,  
1892, . . . . . 36 20  
References—Donnelly, 447,234. Feb. 24, 1891.  
Worle, 314,160. March 17, 1885.  
Unzicker, 242,490. June 7, 1881.  
Unzicker, 355,038. Dec. 28, 1886.  
Latta, 447,434. March 3, 1891.  
Roddinget, 431,529. July 1, 1890.  
Stoliker, 50,425. Oct. 10, 1865.  
Reiner, 354,584. Dec. 21, 1886.  
Thorp, 433,704. Aug. 5, 1890.  
Harris, 272,133. Feb. 13, 1883.
- 471,417 Bunker, William L., March 22, 1892, 36 20  
References—Veeder, 239,620. April 5, 1881.  
Andrews, 384,600. June 10, 1888.  
Swell, 403,078. May 7, 1889.
- 471,472 Fleming, Will A., March 22, 1892, 36 21  
References—Smith, 301,490. Oct. 23, 1888.  
Starley & Owens, 415,072. Nov. 12, 1889.  
Hanson & Fryburg, 406,581. July 9, 1889.  
Emerson, 99,546. Feb. 8, 1870.  
Davis, 410,751. Sept. 10, 1889.  
Warwick, 434,615. Aug. 19, 1890.  
Fleming, 443,938. Dec. 30, 1890.  
Dunzenbaker, 440,944. Nov. 18, 1890.  
Smith, 302,973. Nov. 13, 1888.
- 471,621 O'Brien, Thomas, March 29, 1892, 37 21  
References—Warwick, 329,517. Nov. 3, 1885.  
O'Brien, 413,415. Oct. 22, 1889.
- 471,651 O'Brien, Thomas, March 29, 1892, 37 21  
References—4,092 of 1879. English.
- 471,685 Hunt, Jonathan A., March 29, 1892, 38 21  
References—Schmetzer, 2,396 of 1885. English.  
Brooks, 114 of 1883. . . . .  
Garford, 431,573. July 8, 1890.
- 471,744 Hansom, Olaus, March 29, 1892, . . . . . 38 21  
References—Wills, 458,609. Sept. 1, 1890.  
16,145 of 1893. English.  
Turner & Asbury, 408,861. Aug. 13, 1889.
- 471,770 Miller, Austin E., March 29, 1892, 39 22  
References—Giles, 252,455. Jan. 17, 1882.  
Giles, 236,572. Jan. 11, 1881.  
Yingst, 426,518. April 29, 1890.
- 471,798 Latta, Emmet G., March 29, 1892, 39 22  
References—Pope, 379,007. March 20, 1888.  
15,448 of 1884. English.  
12,413 of 1887. English.  
Warwick, 354,945. June 19, 1888.  
Warwick, 412,216. Oct. 1, 1890.
- 471,802 Parkinson, John, March 29, 1892, 40 22  
No references.
- 471,813 De Wolfe, Edward R., March 29, 1892, 40 22  
References—Tillinghast, 550,951. April 21, 1891.  
Dunlop, 435,995. Sept. 9, 1890.  
8,592 of 1891. English.
- 471,845 Lewis, William T., March 29, 1892, 40 23  
No references.
- 471,908 Steers, William, and Hunt, Harry,  
March 29, 1892, . . . . . 41 23  
References—Gilbert, 415,291. Nov. 19, 1889.  
Latta, 464,653. Dec. 8, 1891.  
Whiton, 345,351. July 13, 1886.
- 471,921 Watson, Thomas A., March 29, 1892, 41 23  
References—Sweet, 403,078. May 7, 1889.  
Jeffery, 383,151. May 22, 1888.  
8,472 of 1890. English.
- 471,932 Youngs, Fred E., March 29, 1892, 41 23  
References—Moran, 245,542. Aug. 9, 1881.  
Waterson, 445,914. Feb. 3, 1891.
- 471,959 Dart, Isaac, March 29, 1892, . . . . . 42 23  
References—Arnao, 182,005. Sept. 12, 1876.  
Bernhard, 243,195. Jan. 21, 1881.  
Broy, 250,634. April 18, 1882.  
Bannister, 65,033. Jan. 11, 1867.
- 472,005 Vale, Samuel, March 29, 1892, . . . . . 42 24  
References—Donnelly, 447,234. Feb. 24, 1891.  
Hillman, 430,019. June 10, 1890.  
Barrow & Guest, 425,017. April 8, 1890.  
Latta, 447,434. March 3, 1891.  
Hoff, 445,832. Sept. 1, 1891.  
17,209 of 1889. English.
- 472,282 Werneth, Francis J., April 5, 1892, 43 25  
References—Libby, 339,793. April 13, 1886.  
Ward, 336,393. Feb. 16, 1886.  
Tillman, 305,282. June 21, 1887.

- | P.   | C. | P.   | C. |
|--|----|--|----|
| Demore-t, 222,875. Dec. 22, 1879.<br>Zanger, 309,428. June 17, 1884.<br>Gibson, (R.) 9,829. Aug. 9, 1881.  |    | 473,196 Moody, David J., April 19, 1892, 48 27<br>References—Durov, 277,246. May 8, 1883.<br>King, 327,397. Sept. 29, 1885.<br>Schneider, 319,329. June 2, 1885.<br>Kramer, 355,324. Jan. 4, 1887.<br>Schmitt, 91,169. June 8, 1869.<br>Shanck, 289,151. Nov. 27, 1883.<br>Simpson, 90,595. May 25, 1869.<br>46,419. German. |    |
| 472,287 Crooker, William W., April 5, 1892, 43 25<br>References—Walker, 296,370. April 8, 1884.<br>Hale, 23,571. April 12, 1859.<br>Randolph, 95,265. Sept. 28, 1869.  |    | 473,388 Garford, Arthur L., April 19, 1892, 49 28<br>No references.  |    |
| 472,341 Douglas, Frank, April 5, 1892, . . . 43 25<br>References—Dunlop, 435,995. Sept. 9, 1890.<br>Jeffery, 454,115. June 16, 1891.<br>“Cyclist” of Feb. 4, 1891, pages 11 and 12.<br>“The Clincher Pneumatic Tire, &c.”<br>Thomson, 5,104. May 8, 1847.<br>6,197 of 1891. English.<br>Woodbury, 276,121. April 17, 1883.<br>Patison, 302,532. May 10, 1887.<br>Dunlop, (R.) 11,153. March 24, 1891.<br>Scott, 467,084. Feb. 2, 1892.<br>Garford, 467,164. Jan. 19, 1892. |    | 473,408 Rice, Charles D., April 19, 1892, . . 49 28<br>References—Harris, 371,580. Oct. 18, 1887.<br>14,563 of 1890. English.<br>Schrader, 466,577. Jan. 5, 1892.  |    |
| 472,411 Toney, George W., and Livingston,<br>Murray V., April 5, 1892, . . . . . 44 25<br>References—S.600 of 1889. English.<br>“Cyclist” May 20, 1891. p. 7. “Dunkley<br>Cushion Tire.”   |    | 473,426 Morgan, Joseph U., April 19, 1892, 49 28<br>References—Premier, 290,224. Dec. 18, 1883.<br>Terry, 416,190. Dec. 3, 1889.<br>Gendron, 150,021. April 21, 1874.  |    |
| 472,427 Brooks, William S., April 5, 1892, 44 25<br>References—Little, 452,797. May 26, 1891.  |    | 473,434 Stevens, John C., April 19, 1892, . . 49 28<br>References—Ribble & Spencer, 387,814. Aug. 14, 1888.<br>Schemmel, 381,956. May 1, 1888.<br>Smith, 211,867. Feb. 4, 1879.<br>Fischer, 51,642. German.  |    |
| 472,484 Phelps, Lucius, J., April 5, 1892, . . 44 25<br>References—Thomson, 5,104. May 8, 1847.  |    | 473,493 Bergfels, Henry, April 26, 1892, . . 50 28<br>No references.   |    |
| 472,485 Phelps, Lucius J., April 5, 1892, . . 45 25<br>References—Jeffery, 466,789. Jan. 12, 1892.<br>Jeffery, 466,565. Jan. 5, 1892.  |    | 473,525 Ridge, Joseph, April 26, 1892, . . 50 28<br>References—2,926 of 1869. English.<br>5,358 of 1881. “   |    |
| 472,487 Smalley, Martin D., April 5, 1892, 45 26<br>References—Latta, 443,663. Dec. 30, 1892.<br>3,688 of 1884. English.   |    | 473,586 Miller, George W., April 26, 1892, 51 29<br>No references.   |    |
| 472,528 DeWitt, William H., April 12, 1892, 45 26<br>References—Glover, 437,591. Sept. 30, 1890.<br>Krieger & Dahlmer, 445,118. Jan. 20, 1891.   |    | 473,609 Brampton, Walter, April 26, 1892, 51 29<br>References—Bragg, 99,990. June 8, 1869.<br>1,301 of 1886. English.<br>Burly, 233,504. Feb. 14, 1882.<br>Meader, 457,654. Aug. 11, 1891.<br>Latta, 455,882. July 14, 1891.<br>Lamplugh, 311,332. Jan. 27, 1885.<br>Andrews, 384,600. June 19, 1888.                        |    |
| 472,732 Latta, Emmut G., April 12, 1892, . . 46 26<br>References—Hance, 454,431. June 16, 1891.<br>1,298 of 1888. English.<br>Toquet, 425,837. April 15, 1890.<br>Warwick, 434,615. Aug. 19, 1890.   |    | 473,672 Schrader, George H. F., April 26,<br>1892, . . . . . 51 29<br>References—Michell, 159,200. Jan. 26, 1875.  |    |
| 472,786 Dorchester, Edward G., April 12,<br>1892, . . . . . 46 26<br>References—Thomas, (R.) 11,155. April 7, 1891.<br>DeWolfe, 460,714. Oct. 6, 1891.<br>Dunlop, 435,995. Sept. 9, 1890.<br>Thomas, 399,349. March 12, 1889.<br>16,805 of 1890. English.  |    | 473,673 Schrader, George H. F., April 26,<br>1892, . . . . . 51 29<br>No references.   |    |
| 472,796 Moskowitz, Jacob D., April 12,<br>1892, . . . . . 47 27<br>References—13,782 of 1886. English.<br>Davenport, 420,145. Jan. 28, 1890.   |    | 473,728 Crecelius, Louis J., April 26, 1892, 52 30<br>References—Crecelius, 406,705. July 9, 1889.<br>14,376 of 1884. English.<br>9,437 of 1889. “   |    |
| 472,837 Wheatley, Thomas, April 12, 1892, 47 27<br>References—Garratt, 12,238. Jan. 16, 1855.<br>Wakefield, 115,914. June 13, 1871.<br>Jones, 428,107. May 20, 1890.   |    | 473,798 Tillington, Pardon W., April 26,<br>1892, . . . . . 52 30<br>References—Thomas, 399,355. March 12, 1889.<br>Thomson, 5,104. May 8, 1847.<br>5,468 of 1882. English.<br>4,175 of 1891. “<br>20,451 of 1890. “<br>14,593 of 1890. “<br>11,534 of 1891. “   |    |
| 473,030 Sweetland, Frank, April 19, 1892, 47 27<br>References—Welch, 13,986. Oct. 30, 1886. English.   |    | 473,816 Binns, William II., April 26, 1892, 52 30<br>References—Mitchell, 320,270. June 10, 1885.<br>1,880 of 1873. English.   |    |
| 473,034 Ulbricht, Emil, April 19, 1892, . . 47 27<br>References—6,197 of 1891. English.<br>14,566 of 1890. “<br>Thomson, 5,104. May 8, 1847.<br>“Cyclist” of Feb. 4, 1891, page 12.<br>Johnson, 8,592 of 1891. English.<br>Faulkner, 13,612 of 1890. English.<br>Scott, 16,805 of 1890. “  |    | 473,817 Binns, William II., April 26, 1892, 53 30<br>References—Smith, 392,973. Nov. 13, 1888.<br>Morris & Wilson, 400,242. Sept. 29, 1891.  |    |
|  |    | 473,818 Binns, William II., April 26, 1892, 53 30<br>No references.  |    |

- | <i>P. C.</i>   | <i>P. C.</i>   |
|--|--|
| 473,829 Diamond, James, April 26, 1892, . . . . . 53 30  | 474,279 Arnold, Clarence R., May 3, 1892, 60 34  |
| References—Vincent, 453,673. July 7, 1891.<br>Samuels, 425,652. April 8, 1890.<br>Halladay, 451,429. April 28, 1891.   | References—Gill & Alexander, 227,685. May 18, 1880.<br>Sheffield, 213,254. March 11, 1879.<br>Walz, 260,490. Dec. 19, 1882.<br>1,329 of 1884. English.   |
| 473,831 Dunlop, John B., April 26, 1892, . . . . . 54 31   | 474,327 Meigs, George W., and Ziegler, John G., May 3, 1892, . . . . . 61 35   |
| References—Dunlop, 453,550. June 2, 1891.<br>18,676 of 1888. English.<br>Bartlett, 448,793. March 24, 1891.<br>Thomson, 5,104. May 8, 1847.<br>8,716 of 1884. English.<br>5,468 of 1882. " "<br>Thomas, 399,354. March 12, 1889.             | References—Norton, 393,387. Nov. 27, 1888.<br>2,557 of 1889. English.<br>Hale, 339,289. April 6, 1886.<br>15 of 1885. English.<br>1,298 of 1888. "<br>1,956 of 1877. "<br>Jeffery, 441,417. Nov. 25, 1890.<br>Danzenbaker, 440,944. Nov. 18, 1890.<br>Smith, 392,973. Nov. 13, 1888. |
| 473,837 Green, Richard, April 26, 1892, . . . . . 54 31  | 474,400 McKennan, Thomas E., May 10, 1892, . . . . . 62 35   |
| References—Wilson, 348,605. Sept. 7, 1886.<br>Behringer, 358,531. March 1, 1887.   | No references.   |
| 473,867 Brosnan, Cornelius J., April 26, 1892, . . . . . 55 31   | 474,415 Schoch, Martin L., May 10, 1892, 63 35   |
| References—Backus, 436,453. Sept. 16, 1880.  | References—Leeper, 420,579. Feb. 4, 1890.  |
| 473,871 Gardner, Fulton, April 26, 1892, . . . . . 55 32   | 474,423 Straus, Alexander, May 10, 1892, 63 36   |
| No references.   | References—21,253 of 1890. English.<br>8,952 of 1891. "  |
| 21,014 Sercombe-Bolte Manufacturing Co., April 19, 1892, . . . . . 50 50<br>(Trade Mark.)  | 474,453 Lindner, Otto, May 10, 1892, . . . . . 63 36   |
| No references.   | References—Mulliner, 193,088. Aug. 7, 1877.<br>Harris, 371,580. Oct. 18, 1887.<br>Wietel's Old Oak, 164,894. June 22, 1875.<br>Allen, 202,772. April 23, 1878.<br>Mitchell, 202,165. Sept. 30, 1879.<br>Massey, 413,452. Oct. 22, 1889.<br>14,563 of 1890. English.                  |
| 473,931 Jaquish, Louis C., May 3, 1892, . . . . . 57 33  | 474,459 Brown, Alexander T., May 10, 1892, 63 36   |
| References—Ferris, 354,777. Dec. 21, 1886.   | References—Schrader, 466,577. Jan. 5, 1892.<br>21,253 of 1890. English.<br>Straus, 449,502. March 31, 1891.<br>"The Cyclist." Feb. 4, 1891, p. 4.<br>4,889 of 1891. English.   |
| 473,959 Quealy, John T., May 3, 1892, . . . . . 57 33  | 474,740 Hoopes, David J., May 10, 1892, 64 36  |
| References—Greene & Dyer, 91,535. June 22, 1869.<br>Burlinghausen, 299,617. June 3, 1884.<br>Langmark & Streiff, 228,908. June 15, 1880.<br>Behr, 379,849. March 20, 1888.<br>Hemmings, 92,528. July 13, 1869,                               | References—Kibbe, 393,837. Dec. 4, 1888.<br>Hatcher, 458,106. Aug. 18, 1891.<br>Curtin, 255,775. April 4, 1882.  |
| 473,970 Snyder, Waldo V., May 3, 1892, . . . . . 58 33   | 474,759 Perkins, Albert, May 10, 1892, . . . . . 64 36   |
| References—Snyder, 453,673. June 9, 1891.<br>15,479 of 1885. English.<br>Goodwin, 61,416. June 22, 1867.<br>Bowen, 242,590. June 7, 1881.<br>Ricker, 265,341. Oct. 3, 1882.<br>Vick, 228,496. June 8, 1880.<br>Vick, 346,078. July 20, 1886. | References—Hunt, 450,938. April 21, 1891.<br>Hunt, 443,482. Dec. 23, 1890.   |
| 473,995 Bennett, Noble E., May 3, 1892, . . . . . 58 33  | 474,761 Sequeira, Augustus, May 10, 1892, 64 36  |
| References—Wood, 438,848. July 22, 1890.<br>Rogers, 154,913. Sept. 8, 1874.<br>Valiquet, 313,460. March 3, 1885.   | References—Keating, 420,805. Feb. 4, 1890.<br>Clough & Carter, 426,524. April 29, 1890.<br>Trebert, 462,782. Nov. 10, 1891.  |
| 474,051 Woodhead, Richard M., and Angois, Paul, May 3, 1892, . . . . . 58 34   | 474,784 Thompson, Thomas J., May 10, 1892, 65 37   |
| References—Heidecker, 393,230. Nov. 20, 1888.<br>Smith, 391,490. Oct. 23, 1888.<br>Oakford, 190,689. Mar. 15, 1877.<br>Koelkebeck, 335,460. Feb. 2, 1886.<br>Rupe, 270,860. April 17, 1883.<br>12,925 of 1887. English.                      | References—Halladay, 451,428. April 28, 1891.<br>Thompson, 5,250 of 1890. English.<br>53,079. German.<br>49,232. "<br>Easthope, 423,471. March 18, 1890.<br>Becker, 439,095. Oct. 28, 1890.<br>Overman, 463,390. Nov. 17, 1891.  |
| 474,096 McCormick, Thomas, May 3, 1892, . . . . . 59 34  | 474,897 Barnes, Charles O. and Lucien, Sr., May 17, 1892, . . . . . 66 37  |
| References—O'Brien, 287,566. Oct. 30, 1883.<br>Jones, 344,449. June 29, 1886.  | References—Shaw, 166,151. July 27, 1875.<br>Goodrich, 455,426. July 7, 1891.<br>Rogers, 154,913. Sept. 8, 1874.<br>Jefferson, 243,509. June 28, 1881.<br>Hanks, 433,285. July 29, 1890.  |
| 474,106 Sweetland, Frank, May 3, 1892, . . . . . 59 34   | 475,020 Perry, George R. and William H. and George, Cortis K., May 17, 1892, 66 37   |
| No references.   | References—Whitehead, 341,526. May 11, 1886.<br>Knouse, 318,568. May 26, 1885.<br>Pratt, 312,219. Feb. 10, 1885.   |
| 474,138 Long, David F., May 3, 1892, . . . . . 59 34   |  |
| References—Gendron, 465,377. June 28, 1887.<br>Avery, 146,159. Jan. 6, 1874.<br>Black, 350,719. Oct. 12, 1886.<br>Richter, 259,212. June 6, 1882.<br>Staples, 293,539. Feb. 12, 1884.  |  |
| 474,215 Collins, Charles M., May 3, 1892, . . . . . 60 34  |  |
| References—Reynolds, 46,705. March 7, 1865.<br>Ross, 210,271. Nov. 26, 1878.<br>Crandall, 199,518. Jan. 22, 1878.  |  |

P.	C.	P.	C.
3,312 of 1883. English. 5,214 of 1883. " 15,170 of 1884. "		475,582 Little, James R., May 24, 1892, . . . . .	72 39
475,130 Mattison, James M.D., ay 17, 1892, 66 37	References—Otto, 87, 285. Feb. 23, 1869. Schafer, 297, 302. April 22, 1884. Horton, 436, 239. Sept. 9, 1890.	References—Hall & Rasmussen, 450, 840. May 26, 1891. Hall & Rasmussen, 452, 841. May 26, 1891. Davis, 251, 840. Jan. 3, 1882. Tice, 262, 072. Jan. 15, 1884. Gendron, 419, 009. Jan. 7, 1890. Frenier, 299, 224. Dec. 18, 1883. Sperry et al., 263, 082. Sept. 5, 1882.	
475,142 McPherson, Donald H., May 17, 1892, . . . . .	67 37	475,613 Saladee, Cyrus W., May 24, 1892, . . . . .	72 39
References—Warwick, 399, 455. March 12, 1889.		References—True, 455, 027. June 30, 1891. McGlinchey, 455, 474. July 7, 1891. Edwards, 448, 739. March 24, 1891. Garford, 467, 402. Jan. 19, 1892. McGlinchey, 468, 998. Feb. 16, 1892. Clarke, 334, 164. Jan. 12, 1886. Yost & Moore, 448, 469. March 17, 1891. Garford, 467, 403. Jan. 19, 1892.	
475,174 Barbour, Fred E., May 17, 1892, . . . . .	67 37	475,622 Snyder, Waldo V., May 24, 1892, . . . . .	72 40
References—Blood, 446, 748. Feb. 17, 1891. Allen et al., 444, 642. Jan. 13, 1891.		References—Crandall, 199, 518. Jan. 22, 1878.	
475,207 Edwards, William J., May 17, 1892, 67 37	References—Latta, 346, 292. July 27, 1886. Latta, 341, 811. May 11, 1886. Harrington, 359, 863. March 22, 1887. Bolte, 447, 933. March 10, 1891. Toquet, 425, 837. April 15, 1890. Warwick, 224, 941. April 1, 1890. Watkins, 417, 655. Dec. 17, 1889. Richardson, 382, 902. May 15, 1888. 3,688 of 1884. English. Keating, 426, 670. April 29, 1890. Warwick, 399, 455. March 12, 1889. 10,882 of 1889. English. 5,250 of 1890. "	References—Buell, 90, 723. June 1, 1869. Wiggins, 358, 178. Feb. 22, 1887. Kibbe, 402, 460. April 30, 1889. 2,412 of 1890. English.	
475,226 Wolgemuth, Frederick, May 17, 1892, . . . . .	68 38	475,732 Moseley, Joseph, and Blundstone, Benjamin, May 24, 1892, . . . . .	73 40
References—Knell, 455, 288. June 30, 1891.		References—7,287 of 1890. English. Tillinghast, 450, 951. April 21, 1891.	
475,256 Stutzman, Frank, May 17, 1892, . . . . .	68 38	475,744 Agin, George W., May 31, 1892, 74 40	
References—Coudyser, 345, 414. July 13, 1886. Wyke & Bancroft, 261, 200. July 18, 1882. Peter, 457, 619. Aug. 11, 1891. Sturdy et al., 89, 700. May 4, 1869. 15,881 of 1888. English. Blaser, 462, 295. Nov. 3, 1891.		References—Hussong, 330, 786. Nov. 17, 1885. Miller, 197, 524. Nov. 27, 1877.	
475,343 Rice, Charles D., May 24, 1892, . . . . .	68 38	475,780 King, William E., and Walpole, William R., May 21, 1892, . . . . .	74 40
No references.		References—Haines, 411, 190. Sept. 17, 1889.	
475,344 Rice, Charles D., May 24, 1892, . . . . .	68 38	475,785 Mason, Frank H., May 31, 1892, 74 40	
No references.		References—Richwine, 442, 393. Dec. 9, 1890. Bromley & Strauss, 441, 820. Dec. 2, 1890. Thomson, 5, 104. May 8, 1847. Interference with application of H. Thompson. Decision favorable to Mason.	
475,384 Cockburn, John, May 24, 1892, . . . . .	69 38	475,828 Swindley, Harry J., May 31, 1892, 74 40	
References—Mayall, 88, 837. April 13, 1869. Chaffee, 150, 481. May 5, 1874. Jones, 334, 233. Jan. 12, 1886. Shackleton, 374, 080. Nov. 29, 1887. Wilkinson, 301, 417. July 1, 1884.		References—No references.	
475,444 Edwards, William J., May 24, 1892, 69 38	References—Hillman, 430, 019. June 10, 1890. Allen et al., 444, 642. Jan. 13, 1891. Latta, 447, 434. Jan. 13, 1891. Leechman, 447, 834. March 10, 1891. Leechman, 16,723 of 1887. English. Cock, 17, 201 of 1889. Vale, 17, 740 of 1889. Sutton, 16, 155 of 1889.	References—Evans, 449, 581. March 31, 1891. Fleming, 443, 938. Dec. 30, 1890. Latta, 294, 641. March 4, 1884.	
475,445 Edwards, William J., May 24, 1892, 69 38	References—Gaylor, 433, 562. Aug. 5, 1890. Edwards, 466, 134. Dec. 29, 1891. Decker, 463, 302. Nov. 17, 1891. White, 300, 544. June 17, 1884. O'Brien, 372, 428. Nov. 1, 1887. Singer, 444, 141. Jan. 6, 1891.	References—Huber, 303, 285. Aug. 12, 1884. Butler, 308, 747. Dec. 2, 1884. Morsman & Higby, 425, 898. April 15, 1890.	
475,464 Moore, Charles J., May 24, 1892, . . . . .	71 39	476,118 Bailey, Fortune L., May 31, 1892, 77 41	
References—Buzzell, 82, 690. Oct. 6, 1868. Allen, 278, 071. May 22, 1883. Fitts, 158, 206. Dec. 29, 1874. McNeely, 279, 963. June 26, 1883. Sterne, 112, 205. Feb. 28, 1871.		References—Thomson, 5, 104. May 8, 1847. Ham, 92, 606. July 13, 1869. Richwine, 442, 393. Dec. 9, 1890.	
475,510 Miller, Frederie S., May 24, 1892, . . . . .	71 39	476,215 Reed, George T., May 31, 1892, . . . . .	77 42
No references.		References—Rice, 348, 692. Sept. 7, 1886. Moran, 235, 552. Dec. 14, 1886. Duryea, 357, 819. Feb. 15, 1887. 1,777 of 1886. English. 1,306 of 1877. "	

P.	C.	P.	C.
476,216 Reed, George T., May 31, 1892, . . . . .	77 42	476,764 Hall, Joseph C., June 7, 1892, . . . . .	82 45
References—4,880 of 1891. English.		No references.	
14,503 of 1890. "		476,838 Sweetland, Frank, June 14, 1892, . . . . .	82 45
58,442. German.		References—Harriott, 439,400. Oct. 28, 1890.	
"Cyclist," Feb. 4, 1891, p. 12. "The Toc-		476,857 Zalsman, John F., June 14, 1892, 82 45	
gen Tire."		References—Guthler & Gallhaus, 467,737. Jan. 26, 1892.	
21,066 The Quadrant, Cycle Company, May		Stanford, 433,829. Aug. 5, 1890.	
3, 1892, . . . . .	61 61	Schemmel, 381,956. May 1, 1888.	
(Trade Mark.)		476,884 Lisle, Edward June 14, 1892, . . . . .	83 45
No references.		References—Warwick, 412,216. Oct. 1, 1889.	
21,068 Bradshaw Manufacturing Company,		Singer, 9,159 of 1890. English.	
May 3, 1892, . . . . .	62 62	476,911 Westwood, Frederick, June 14,	
(Trade Mark.)		1892, . . . . .	83 46
No references.		References—Thomas, 164,609. June 15, 1875.	
21,101 Bretz & Curtis Manufacturing Com-		Woodruff, 368,744. Aug. 23, 1887.	
pany, May 10, 1892, . . . . .	65 66	Hornsteiner, 3,009. Dec. 20, 1890. German.	
(Trade Mark.)		476,948 Perry, Richard D., June 14, 1892, 83 46	
No references.		No references.	
21,201 The Coventry Machinists Company,		476,974 Bolte, Frank H., June 14, 1892, 83 46	
Limited, May 24, 1892, . . . . .	73 73	References—Blackledge, 435,477. Sept. 2, 1890.	
(Trade Mark.)		477,007 Jeffery, Thomas B., June 14, 1892, 84 46	
No references.		No references.	
476,253 Curtis, Wallace B., and Long,		477,033 Wilson, Stephen, June 14, 1892, . . . . .	84 47
Eugene, June 7, 1892, . . . . .	79 43	References—Cowles & Meiten, 89,293. April 27, 1869.	
References—McCorkindale, 324,864. Aug. 25, 1885.		Ugland, 319,040. June 2, 1885.	
Coleman, 259,370. June 13, 1882.		Barnes, 51,541. Dec. 19, 1865.	
476,297 Overs, Curtis E., June 7, 1892, . . . . .	79 43	477,042 Calver, Washington I., June 14,	
References—Allen, 94,057. Aug. 24, 1866.		1892, . . . . .	84 47
Evans, 319,385. June 2, 1885.		References—Whitman, 416,699. Dec. 3, 1889.	
Doring & Siegert, 424,864. April 1, 1890.		Greenwood, 441,485. Nov. 25, 1890.	
476,424 Smith, William C., June 7, 1892, . . . . .	79 43	Credlebaugh, 308,945. March 5, 1889.	
References—Blakely, 450,906. April 21, 1891.		Voss, 450,712. April 21, 1891.	
Jeffery, 385,715. July 10, 1888.		477,048 Dorchester, Edward G., June 14,	
Waterson, 445,914. Feb. 3, 1891.		1892, . . . . .	85 47
Latta, 301,253. Oct. 16, 1888.		References—Hinckley, (R.) 969. June 4, 1866.	
476,433 Vetterlein, John, June 7, 1892, . . . . .	79 43	Richwine, 459,614. Sept. 15, 1891.	
References—Nickerson, 382,652. May 8, 1888.		Jeffery, 466,789. Jan. 12, 1892.	
Warwick, 309,455. March 12, 1889.		Moffat & Huss, 470,070. March 1, 1892.	
McCune, 334,393. June 12, 1886.		Phelps, 472,485. April 5, 1892.	
476,479 McCoy, William D., June 7, 1892, 80 73		477,095 Adams, Frederick G., and Henshaw,	
References—Humphrey, 328,682. Oct. 20, 1885.		Francis T., June 14, 1892, . . . . .	85 48
Boudreau, 385,403. July 3, 1888.		No references.	
Brooks, 401,123. April 9, 1889.		477,122 Johnson, Warren S., June 14, 1892, 86 48	
Hance, 454,431. June 16, 1891.		References—Sweet, 403,078. May 7, 1889.	
McGlinchey, 455,474. July 7, 1891.		2,396 of 1885. English.	
Brooks, 5,868 of 1888. English.		8,472 of 1890. "	
Brooks, 12,525 of 1888. "		477,123 Johnson, Warren S., June 14, 1892, 86 48	
Harrington, 360,588. April 5, 1887.		No references.	
Yost & Moore, 448,469. March 17, 1891.		477,140 McDougall, Archi, June 14, 1892, . . . . .	86 48
476,670 Mitchell, Claudius H., and Veitch,		No references.	
Richard M., June 7, 1892, . . . . .	80 44	477,160 Vogt, Theodore G. P., June 14, 1892, 87 48	
References—7,287 of 1890. English.		No references.	
10,183 of 1891.		477,179 Halladay, Lewis P., June 14, 1892, 87 49	
Montgomery, 438,935. Oct. 21, 1890.		References—Hurrell & Hammond, 3,608. Feb. 21, 1884.	
Melin, 422,059. Feb. 25, 1890.		English.	
476,679 Palmer, John F., June 7, 1892, . . . . .	81 44	477,277 Smith, Elias, June 21, 1892, . . . . .	88 49
References—Faulkner, 13,612 of 1890. English.		References—Leeper, 408,258. Feb. 4, 1890.	
Smith, 14,203 of 1890. "		477,292 Bradley, James, June 21, 1892, . . . . .	88 49
15,311 of 1890. English.		References—Mallette, 360,864. Sept. 13, 1864.	
17,896 of 1891.		Handy, 465,475. Dec. 22, 1891.	
"Cyclist," of Dec. 30, 1891, p. 1109.		Bayliss et al., 4,842. Nov. 26, 1879. English.	
Jeffery, 466,789. Jan. 12, 1892.		477,316 Tillingtonhast, Pardon W., June 21	
Johnson, 8,592 of 1891. English.		1892, . . . . .	88 49
476,680 Palmer, John F., June 7, 1892, . . . . .	81 44	References—Thomson, 5,104. May 8, 1847.	
References—Moffat & Huss, 470,070. March 1, 1892.		Bartlett, 448,793. March 24, 1891.	
Phelps, 472,485. April 5, 1892.			
Faulkner, 13,612 of 1890. English.			
476,681 Palmer, John F., June 7, 1892, . . . . .	81 44		
No references.			

- | <i>P.</i>  | <i>C.</i> | <i>P.</i>   | <i>C.</i> |
|--|-----------|---|-----------|
| Dunlop, 453,550. June 2, 1891.<br>"Cyclist," Feb. 4, 1891, p. 11.<br>Wright, 425,283. April 8, 1890.<br>10,308 of 1891. English.<br>2,787 of 1890.<br>Schrader, 466,577. Jan. 5, 1892.<br>Reed, 184,907. Nov. 28, 1876.                                      |           | 477,962 Robertson, Joseph B., June 28, 1892, 94 53<br>No references.  |           |
| 477,397 Woodward, Charles E. W., June 21,<br>1892, . . . . . 89 50<br>References—Smith, 14,203 of 1890. English.   |           | 477,996 Dunn, Thomas, June 28, 1892, . . . 94 53<br>References—Hoopkins, 3,778 of 1886. English.<br>2,558 of 1891. "  |           |
| 477,423 Keyser, Algernon S., June 21, 1892, 89 50<br>References—Foley, 369,902. Sept. 13, 1887.<br>Cain, 405,159. Dec. 15, 1891.   |           | 478,064 Metz, Charles H., June 28, 1892, . . . 95 53<br>References—Knapp, 400,090. March 26, 1889.<br>Car, 27,315. March 13, 1883.<br>Breitenmoser, 452,336. May 12, 1891.<br>Tragardh, 250,607. Dec. 6, 1881.<br>Bell, 443,266. Dec. 23, 1890.<br>Clements, 425,754. April 15, 1890.<br>Peck, 427,820. Oct. 7, 1890.<br>Warwick, 289,733. Dec. 4, 1883.<br>Duryea, 304,231. June 7, 1887.<br>210,935 of 1891. French.<br>6,197 of 1891. English.<br>8,337 of 1890. " |           |
| 477,502 Bunker, William I., June 21, 1892, 89 50<br>References—7,262 of 1888. English.<br>2,375 of 1886. "<br>863 of 1865. "<br>Thomson, 5,104. May 8, 1847.<br>Wesson, 438,334. Oct. 14, 1890.  |           | 11,249 } True, Richard S., (R.) June 21, . . .<br>455,027 } 1892, . . . . . 92 51<br>References—Honeywood & Cashmore, 2,360 of 1883. English.<br>Brooks, 5,868 of 1888. English.  |           |
| 477,503 Bunker, William I., June 21, 1892, 89 50<br>References—Alden, 100,096. Feb. 22, 1870.<br>Gately, 133,219. Nov. 17, 1872.<br>Bourguignon, 207,487. Aug. 27, 1878.<br>Montgomery, 438,935. Oct. 21, 1890.  |           | 478,086 Butcher, Joseph, July 5, 1892, . . . 97 55<br>References—Perkins, 251,064. Dec. 20, 1881.<br>Cowell, 267,062. Nov. 7, 1882.<br>Tyler, 1,013 of 1874. English.   |           |
| 477,504 Bunker, William I., June 21, 1892, 90 50<br>References—Allen, 91,061. June 8, 1860.<br>Vel & Bacon, 185,660. Dec. 26, 1876.<br>Barlow, 158,885. Jan. 19, 1875.<br>Haworth, 283,780. Aug. 28, 1883.   |           | 478,092 Cushman, Joseph W., July 5, 1892, 97 55<br>References—Bannister, 449,460. March 31, 1891.<br>Rose, 195,536. Sept. 25, 1877.<br>Peters, 121,959. Dec. 19, 1871.  |           |
| 477,505 Bunker, William I., June 21, 1892, 90 50<br>No references.   |           | 478,156 Dunn, Andrew W., July 5, 1892, 98 55<br>References—Montgomery, 438,935. Oct. 12, 1890.<br>Turner, 1,281 of 1869. English.   |           |
| 477,506 Bunker, William I., June 21, 1892, 90 50<br>References—Husberg, 3,564 of 1879. English.<br>Fraser, 5,468 of 1882. "  |           | 478,184 Zimmer, Cyrus W., July 5, 1892, 98 55<br>References—Swett, 403,078. May 7, 1889.<br>Starley, 445 of 1890. English.<br>Deardorff & Betts, 467,352. Jan. 19, 1892.  |           |
| 477,540 Hammer, Jens J., June 21, 1892, . . . 90 51<br>References—Barr, 94,992. Sept. 21, 1860.<br>Schneider, 157,547. Dec. 8, 1874.   |           | 478,187 Davis, Whitney C., July 5, 1892, 99 55<br>References—Lloyd & Priest, 450,888. April 21, 1891.   |           |
| 477,583 Van Bibber, Andrew, June 21, 1892, 91 51<br>References—Lawson, 345,851. July 20, 1886.<br>Goulden, 400,075. March 26, 1889.<br>Warwick, 399,455. March 12, 1889.   |           | 478,191 Hide, Arthur C., July 5, 1892, . . . 99 56<br>References—Coe, 123,809. Feb. 20, 1872.<br>8,042 of 1887. English.  |           |
| 477,659 Huelsen, Felix J., and Nagel, Jacob,<br>June 28, 1892, . . . . . 92 52<br>References—14,563 of 1890. English.<br>21,253 of 1890. "<br>Du Bois, 419,005. Jan. 7, 1890.<br>Jeffery, 454,115. June 16, 1891.<br>16,805 of 1890. English.                |           | 478,194 Lewis, William T., July 5, 1892, 99 56<br>References—Saladee, 180,646. Aug. 1, 1876.  |           |
| 477,705 Russell, Madison J., June 28, 1892, 92 52<br>No references.  |           | 478,206 Owen, Frederick D., July 5, 1892, 99 56<br>References—Janus, 331,199. Nov. 24, 1885.<br>Zimer, 445,618. Feb. 3, 1891.<br>Boyd, 425,593. May 10, 1891.<br>Offenbacher, 4,396 of 1889. English.<br>53,805. German.  |           |
| 477,769 Millet, Charles W., June 28, 1892, 93 52<br>No references.   |           | 478,391 Bolte, Frank H., July 5, 1892, 100 56<br>References—Latta, 448,442. March 17, 1891.<br>Blackledge, 435,477. Sept. 2, 1890.<br>Owen, 308,745. Feb. 26, 1889.   |           |
| 477,772 Mosher, Samuel E., June 28, 1892, 93 52<br>References—Wiggins, 358,178. Feb. 22, 1887.<br>Worms et al, 442,345. Dec. 9, 1890.<br>Golding, 400,204. March 26, 1889.<br>"Cyclist," Feb. 14, 1891, p. 14.<br>12,586 of 1886. English.<br>1,213 of 1885. |           | 478,394 Bretz, Jacob S., July 5, 1892, . . . 100 56<br>References—Smith, 359,745. March 22, 1887.<br>Bretz, 457,861. Aug. 18, 1891.<br>Latta, 341,811. May 11, 1886.<br>Latta, 37,000. Feb. 14, 1888.<br>7,715 of 1887. English.  |           |
| 477,773 Myers, Henry, June 28, 1892, . . . 93 53<br>References—Jeffery, 466,789. Jan. 12, 1892.<br>4,889 of 1891. English.<br>Nedderman, 17,806 of 1891. English.<br>15,311 of 1890. "<br>"Cyclist," Dec. 30, 1891, p. 1109.                                 |           | 478,415 DeWitt, William H., July 5, 1892, 100 57<br>References—Hiller, 422,781. March 4, 1890.<br>Cuthorn & Everett, 401,699. Oct. 20, 1891.<br>Davis, 410,751. Sept. 10, 1890.   |           |
| 477,774 Myers, Henry, June 28, 1892, . . . 94 53<br>References—Murray, 7,287 of 1890. English.<br>Taft, 417,796. Dec. 24, 1889.<br>McCune, 456,771. July 28, 1891.<br>Woodward, 406,548. Jan. 5, 1892.   |           | 478,430 Holdsworth, Charles H., July 5,<br>1892, . . . . . 100 57<br>References—Garford, 431,573. July 8, 1890.<br>McGlinchey, 408,998. Feb. 10, 1892.  |           |

- |  | P. C.  |
|--|--|
| McGlinchey, 460,279. Sept 29, 1891.<br>Brooks, 472,427. April 5, 1892.   | 478,838 Bennage, William D., July 12, 1892, . . . . . 105 60<br>References—Clime, 162,932. April 13, 1875.<br>Reed, 426,855. April 29, 1890.   |
| 478,564 Bullard, Frederick H., and Harrington, Frank, July 12, 1892, . . . . . 101 57<br>References—Montgomery, 438,935. Oct. 21, 1890.<br>Allen, 102,244. March 1, 1870.<br>Gateley, 133,219. Nov. 19, 1872.<br>Eames, 314,440. March 2, 1855.<br>Barret & Varley, 345,476. July 13, 1886.  | 478,878 Marshall, Thomas B., July 12, 1892, . . . . . 105 60<br>References—Morston, 418,923. Jan. 7, 1890.<br>Leeper, 420,579. Feb. 4, 1890.<br>Hohoff, 458,832. Sept. 1, 1891.  |
| 478,581 Elmore, William A., July 12, 1892, 101 57<br>References—Thuemler, 308,195. Feb. 10, 1889.  | 478,918 Cannon, Clinton D., July 12, 1892, 106 60<br>References—Vreeland, 284,990. Sept. 11, 1883.<br>Forrester, 6,158 of 1831. English.<br>Taylor, 198,707. Dec. 25, 1877.  |
| 478,643 Scott, Enmit H., July 12, 1892, . . . . . 101 57<br>References—Bettendorf, 325,585. Sept. 1, 1885.<br>Little, (R.) 10,842. Jan. 7, 1887.<br>Thompson, 347,140. Aug. 10, 1886.<br>Interference with patent to Bettendorf,<br>No. 440,534, Nov. 11, 1890. Decision favorable to Scott.   | 479,056 Cooke, Howard E., July 19, 1892, 106 60<br>References—Lamson, 452,977. May 26, 1891.<br>Dabbs, 436,403. Sept. 16, 1890.<br>Sager, 442,207. Dec. 9, 1890.<br>Voss, 450,712. April 21, 1891.   |
| 478,644 Scott, Enmit H., July 12, 1892, . . . . . 101 57<br>References—Zimmerman, 392,252. Nov. 6, 1888.<br>Thompson, 347,140. Aug. 10, 1886.<br>Bettendorf, 325,585. Sept. 1, 1885.<br>Little, (R.) 10,842. Jan. 7, 1887.<br>Interference with patent to Bettendorf,<br>No. 440,534, Nov. 11, 1890. Decision favorable to Scott.  | 479,064 Fell, Charles, July 19, 1892, . . . . . 107 60<br>References—1,425 of 1882. English.<br>Rothgiesser, 442,275. Dec. 9, 1890.<br>8,567 of 1887. English.   |
| 478,674 Wright, John R., July 12, 1892, . . . . . 102 58<br>References—Duryea, 97,176. Nov. 23, 1869.<br>Fancher, 227,746. May 8, 1880.<br>Allgaier, 89,964. May 11, 1869.<br>Hinckley & Culver, 213,109. March 11, 1879.<br>Buchanan, 199,499. Jan. 22, 1878.<br>Barr, 94,992. Sept. 21, 1869.  | 479,069 Heath, Elroy N., July 19, 1892, . . . . . 107 61<br>References—Blood, 446,748. Feb. 17, 1891.<br>Zacharias, 302,462. July 22, 1884.<br>Holtkamp, 390,368. Oct. 2, 1888.<br>Warwick, 416,696. Dec. 3, 1889.   |
| 478,715 Santee, Elmer V., July 12, 1892, . . . . . 102 58<br>References—Garwood, 435,493. Sept. 2, 1890.<br>Dillaha, 93,686. Aug. 17, 1869.  | 479,177 Vogel, Charles, July 19, 1892, . . . . . 107 61<br>No references.  |
| 478,724 Tuttle, John H., and Cable, Frank D., July 12, 1892, . . . . . 103 58<br>No references.  | 479,201 Bolte, Frank H., July 19, 1892, . . . . . 107 61<br>References—Sheridon, 442,832. Dec. 16, 1890.<br>Dunlop, 435,995. Sept. 9, 1890.<br>608 of 1884. English.<br>17,093 of 1884. " "<br>8,866 of 1889. " "<br>King, 353,071. Nov. 23, 1886.<br>Duryea, 357,819. Feb. 15, 1887.<br>Thomas, 399,355. March 12, 1889.<br>Thomas, 399,357. March 12, 1889.<br>"Cyclist," Feb. 4, 1891, page 12. "Rain's<br>Cushion and Pneumatic."  |
| 478,735 Boswell, George G. F., July 12, 1892, . . . . . 103 58<br>References—Molin, 434,605. Aug. 19, 1890.<br>Mead, 410,043. Sept. 10, 1889.  | 479,202 Bolte, Frank H., July 19, 1892, . . . . . 108 61<br>References—Dunlop, 453,559. June 2, 1891.<br>Thomas, (R.) 11,155. April 7, 1891.<br>18,676 of 1888. English.<br>Bartlett, 448,793. March 24, 1891.<br>"Cyclist," June 17, 1891, p. 12.<br>"Cyclist," Feb. 4, 1891, p. 11. "The Pilot<br>Pneumatic."<br>Mayall, 88,887. April 13, 1869.<br>Alden, 100,096. Feb. 22, 1870.<br>Dodge, 148,428. March 10, 1874.<br>Wright, 425,283. April 8, 1890.<br>Reed, 184,907. Nov. 28, 1876.<br>Stone, 164,946. June 29, 1875.<br>8,592 of 1891. English.<br>14,563 of 1890. "<br>Murphy, 296,436. April 8, 1884.<br>Bromley & Straus, 441,820. Dec. 2, 1890. |
| 478,770 Thorp, Henry H., July 12, 1892, 104 59<br>References—1,4719 of 1888. English.  | 479,203 Bolte, Frank H., July 19, 1892, . . . . . 109 62<br>References—Alden, 100,096. Feb. 22, 1870.<br>Reed, 184,709. Nov. 28, 1876.<br>Stone, 164,946. June 29, 1875.<br>Reed, 125,331. April 2, 1872.  |
| 478,772 Traut, Justus A., July 12, 1892, 104 59<br>References—Bickford, 187,247. Feb. 13, 1877.<br>Hadlund, 446,003. Feb. 10, 1891.<br>Birch, 220,702. April 20, 1880.<br>Clipsham, 4,346 of 1891. English.  | 479,229 Sulzner, Charles, July 19, 1892, . . . . . 109 62<br>References—Baker, 439,372. Oct. 28, 1890.<br>Adgate, 302,643. July 29, 1884.<br>Hoogeboom, 320,658. June 23, 1885.  |
| 478,776 Woodward, Charles E. W., July 12, 1892, . . . . . 104 59<br>References—Brown & Andrews, 44,511. Oct. 4, 1864.<br>Haes, 425,319. April 8, 1890.<br>Colt, 430,115. June 17, 1890.<br>Clark & Briggs, 329,718. Nov. 3, 1885.<br>Walton, 232,092. Sept. 7, 1880.<br>Bartlett, 260,735. July 11, 1882.<br>Miller, 264,955. Dec. 26, 1882.<br>1,214 of 1887. English.<br>Hering, 443,207. Dec. 23, 1890.<br>Lucas, 407,409. July 23, 1889. | 479,255 Dunlop, John B., July 19, 1892, . . . . . 109 62<br>References—17,529 of 1888. English.<br>5,358 of 1881. "  |
| 478,805 Munson, Corydon W., July 12, 1892, . . . . . 105 59<br>No references.  |  |

P.	C.	P.	C.
479,470 Smallwood, George T., July 26, 1892, . . . . .	110 62	480,026 Morton, Augustus, Aug. 2, 1892, . . . . .	116 66
References—Molin, 434,605. Aug. 19, 1890. Evans, 464,789. Dec. 8, 1891. Clemson, 316,009. April 21, 1885. Elwood, 253,023. Jan. 31, 1882. McDougall, 387,726. Aug. 14, 1888. Garford, 457,435. Aug. 11, 1891. Hummelmann, 225,010. March 2, 1880. Hiller, 422,781. March 4, 1890. Morrell, 86,573. Feb. 2, 1869.		References—Nichols & Ross, 391,483. Oct. 23, 1888. Rockwell, 431,918. July 18, 1890. Kintner, 455,626. July 7, 1891. Müllges, Jr. et al., 13,096. German.	
479,566 Latta, Emmet G., July 26, 1892, . . . . .	111 63	480,030 Pizzey, William J., Aug. 2, 1892, . . . . .	116 66
References—Brown, 468,721. Feb. 9, 1892. Jeffery, 466,565. Jan. 5, 1892. Jeffery, 383,130. May 22, 1888. Thomas, 399,361. March 12, 1889. Dorchester, 468,560. Feb. 9, 1892. Turner, 355,359. Jan. 4, 1887.		References—Rose, 459,335. Sept. 8, 1891. Myers, 459,015. Sept. 8, 1891. Mogk, 442,779. Dec. 16, 1890. Brown, 15,228 of 1890. English. Golding, 668 of 1884. . . . . Bethune, 2,030 of 1872. . . . . Scott, 467,084. Feb. 2, 1892. Jeffery, 466,565. Jan. 5, 1892. Dorchester, 472,780. April 12, 1892.	
479,656 Peet, Benjamin F., July 26, 1892, . . . . .	112 63	480,061 Birchard Francis H., Aug. 2, 1892, . . . . .	116 66
References—Garford, 467,402. Jan. 19, 1892. Hunt, 471,685. March 29, 1892. Interference between applications of H. Bergfels, W. D. McCoy, L. M. Devore, and A. L. Garford. Decision unfavorable to Peet.		References—Stevens, 293,284. Feb. 12, 1884. Ehrlich, 327,669. Oct. 6, 1885. Doring & Siegert, 417,550. Dec. 17, 1889. Hathaway, 456,411. July 21, 1891. Wilson, 459,569. Sept. 15, 1891. Mortson, 418,923. Jan. 7, 1890. McCash, 466,020. Dec. 29, 1891.	
479,757 Fruen, Walter L., July 26, 1892, . . . . .	112 63	480,166 Battersby, Arthur J., Aug. 2, 1892, . . . . .	117 67
No references.		References—Kibbe, 393,837. Dec. 4, 1888. Kibbe, 402,460. April 30, 1889.	
21,458 Buffalo Wheel Co., July 19, 1892, . . . . .	109 109	480,210 Overman, Albert H., Aug. 2, 1892, . . . . .	117 67
(Trade Mark.)		References—Miller, 264,955. Sept. 26, 1882. Rabenstein et al., 430,193. June 17, 1890. 496 of 1879. English. Parish, 372,325. Nov. 1, 1887. Baron, 208,142. Sept. 17, 1878. Krummenauer, 272,841. Feb. 20, 1883.	
479,792 Eager, Williams, A. W., Aug. 2, 1892, . . . . .	113 65	480,349 Sinclair, Finlay, Aug. 9, 1892, . . . . .	117 67
No references.		References—Dunlop, 20,451 of 1890. English. Smith, 14,203 of 1890.	
479,825 Mattison, James D., Aug. 2, 1892, . . . . .	113 65	480,400 DeWolfe, Edward R., Aug. 9, 1892, . . . . .	118 67
References—Horton, 436,239. Sept. 9, 1890. Loose, 325,548. Sept. 1, 1885.		References—Tillinghast, 473,798. April 26, 1892. Schrader, 473,673. April 26, 1892.	
479,839 Pfleger, John, Aug. 2, 1892, . . . . .	114 65	480,441 Siar, William, and Dunn, Charles H., Aug. 9, 1892, . . . . .	118 68
References—Gardner & Trageser, 87,760. March 16, 1869. Hanchett et al., 109,408. Nov. 22, 1870. Hall, 91,123. June 8, 1869. Lindon, 88,574. April 6, 1869.		References—Doring & Siegert, 424,864. April 1, 1890. Anderson, 461,806. Oct. 27, 1891. Taylor, 453,094. May 26, 1891.	
479,845 Sager, James H., Aug. 2, 1892, . . . . .	114 65	480,477 Schäfer, Wilhelm, Aug. 9, 1892, . . . . .	118 68
No references.		No references.	
479,846 Sager, James H., Aug. 2, 1892, . . . . .	114 65	480,585 Imlah, James, Aug. 9, 1892, . . . . .	118 68
References—Sager, 453,212. June 2, 1891. Blood, 446,748. Feb. 7, 1891. Wall, 467,729. Jan. 26, 1892.		References—Bergner, 91,510. June 22, 1869. Breitenmoser, 452,336. May 12, 1891.	
479,851 Smith, William C., Aug. 2, 1892, . . . . .	115 66	480,586 Jewell, Robert, Aug. 9, 1892, . . . . .	119 68
References—Mogk, 442,779. Dec. 16, 1890. Rose, 459,335. Sept. 8, 1891. Ramsay, 126,741. May 14, 1872. 193 of 1886. English. 18,923 of 1889. . . . . 668 of 1884. . . . .		References—Morgan, 473,426. April 19, 1892. Oliver, 415,787. Nov. 26, 1889. Lane, 52,422. Feb. 6, 1866.	
479,946 Latta, Emmet G., Aug. 2, 1892, . . . . .	115 66	480,595 Lehmann, Karl, Aug. 9, 1892, . . . . .	119 68
References—Thomson, 5,104. May 8, 1847. Palmer, 467,642. Jan. 26, 1892. Smith, 14,203 of 1890. English. Owen, 365,091. June 21, 1887. Warwick, 4,317 of 1891. English. Leas, 3,067 of 1885. . . . . Faulkner, 13,612 of 1890. . . . .		References—4,889 of 1891. English. 15,300 of 1890. . . . . Jeffery, 454,115. June 16, 1891. Jeffery, 466,565. June 5, 1892. Bartlett, 460,532. Jan. 5, 1892.	
479,969 Wright, David D., and Berry, Will iam R., Aug. 2, 1892, . . . . .	116 66	480,599 Lynch, William, and Tremper Eugene, Aug. 9, 1892, . . . . .	120 69
No references.		References—Norton, 393,837. Nov. 27, 1888. Winton, 461,696. Oct. 20, 1891. Paessler, 328,799. Oct. 20, 1885.	
		480,600 Magenesis, John, Aug. 9, 1892, . . . . .	120 69
		References—Rose, 399,285. March 12, 1889. Jeffery, 308,158. Feb. 19, 1889. Wallace, 299,883. June 3, 1884.	
		480,661 France, Albert L., Aug. 9, 1892, . . . . .	120 69
		References—Helbig, 398,253. Feb. 10, 1889.	

- 480,738 Von Olivier, Julius, Aug. 16, 1892, 120 69  
 References—Goodrich, 455,426. July 7, 1891.  
 Carpenter, 443,745. Dec. 30, 1890.  
 Harris, 200,442. July 30, 1878.  
 Huber, 303,285. Aug. 12, 1884.
- 480,760 Blood, Maurice E., Aug. 16, 1892, 121 69  
 References—Whitman, 416,699. Dec. 3, 1889.  
 Greenwood, 411,485. Nov. 25, 1890.  
 Voss, 450,712. April 21, 1891.
- 480,838 Bergfels, Henry, Aug. 16, 1892, . 121 69  
 References—Garford, 431,573. July 8, 1890.  
 Garford, 467,402. Jan. 19, 1892.  
 Hunt, 471,685. March 29, 1892.
- 480,844 Hall, George F., Aug. 16, 1892, . 121 70  
 References—Keating, 420,805. Feb. 4, 1890.  
 Terrot, 435,466. Sept. 2, 1890.  
 Latta, 294,641. March 4, 1884.  
 Trebert, 462,782. Nov. 10, 1891.  
 Clough & Carter, 426,524. April 29, 1890.  
 Grout, 254,639. March 7, 1882.  
 Wardel, 3,172. Feb. 28, 1890. English.  
 Blanchard, Dec. 28, 1823.  
 Evans, 464,789. Dec. 8, 1891.  
 Fairchild, 230,762. Aug. 3, 1880.
- 481,038 Kupfer, Arthur A. and Herman C., Aug. 16, 1892, . . . . . 122 70  
 References—Murray, 7,287 of 1890. English.  
 Robertson, 9,324 of 1890. "  
 10,958 of 1890. "  
 Wright, 425,283. April 8, 1890.  
 Taft, 417,796. Dec. 24, 1889.  
 Garford, 467,164. Jan. 19, 1892.  
 Seddon, 6,197 of 1891. English.  
 21c,935 of 1891. French.
- 481,053 Owen, Herbert S., Aug. 16, 1892, 122 70  
 References—Francis, 13,872. Dec. 4, 1855.  
 Dearth, 426,715. April 29, 1890.  
 Bodies' Col., 123,809. Feb. 20, 1872.  
 Avery, 420,405. June 3, 1890.  
 Morris, 5,767 of 1890. English.  
 Leddell, 367,049. July 26, 1857.  
 Latta, 438,551. Oct. 14, 1890.  
 Robinson, 37,204. Feb. 23, 1869.  
 Morse, 92,991. July 27, 1869.  
 Clark, 420,036. Jan. 28, 1890.  
 Edwards, 442,871. Dec. 16, 1890.  
 Donnelly, 447,234. Feb. 2, 1891.  
 Hibbert & Manuel, 446,096. Feb. 10, 1891.  
 Edwards, 466,134. Dec. 29, 1891.
- 481,070 Shlocum, Martha E., Aug. 16, 1892, 123 71  
 References—Gibbons & Menely, 351,972. Nov. 2, 1886.  
 Blossfeld, 363,360. May 24, 1887.  
 Ilchr, 379,849. March 20, 1888.  
 Crowley, 296,680. April 8, 1884.
- 481,118 O'Donnell, Michael J., Aug. 16, 1892, . . . . . 123 71  
 References—Buzzell, 98,720. Jan. 18, 1870.
- 481,197 Roth, Charles H., Aug. 23, 1892, 124 72  
 References—14,563 of 1890. English.  
 Thomas, 309,355. March 12, 1889.  
 Johnson, 8,592 of 1891. English.  
 9,381 of 1890.  
 Woodbury, 276,121. April 17, 1883.  
 Schrader, 466,577. Jan. 5, 1892.  
 Rice, 473,408. April 19, 1892.  
 Jeffery, 454,115. June 16, 1891
- 481,236 Macaulay, Edwin W., Aug. 23, 1892, . . . . . 124 72  
 No references.
- 481,323 Wyman, Adolphus F., Aug. 23, 1892, . . . . . 124 72  
 References—Seddon, 6,197 of 1891. English.  
 Dorr, 469,516. Feb. 23, 1892.
- 481,340 Woodward, Charles E. W., Aug. 23, 1892, . . . . . 124 72  
 References—Overman, 436,993. Sept. 23, 1890.  
 41,391. April 30, 1887. German.
- 481,390 Egge, Frederick, Aug. 23, 1892, 125 72  
 No references.
- 481,428 Shelley, Abram C., Aug. 23, 1892, 125 72  
 No references.
- 481,435 Stone, Thomas H., and Corser, Harvington, Aug. 23, 1892, . . . . . 126 72  
 References—17,714 of 1891. English.  
 6,521 of 1890.  
 "Cyclist," Feb. 4, 1891, p. 7. "Duplex and Club Tire."  
 Bartlett, 466,702. Jan. 5, 1892.  
 Jacobs, 450,702. July 28, 1891.
- 481,460 Ashley, Frederick, Aug. 23, 1892, 126 73  
 References—West, 463,181. Nov. 17, 1891.  
 Allen, 278,071. May 22, 1883.  
 Gross, 451,858. May 5, 1891.  
 5,538 of 1882. English.  
 5,358 of 1881.
- 481,476 Cranmer, William S., Aug. 23, 1892, 126 73  
 References—Mallette, 369,864. Sept. 13, 1887.  
 Marble, 328,499. Oct. 20, 1885.
- 481,536 Winton, Alexander, Aug. 23, 1892, 126 73  
 References—Broughton & Bennett, 51,966. German.  
 Bolte, 447,933. March 10, 1891.  
 Dimmick, 143,813. Oct. 21, 1873.
- 481,538 Garford, Arthur L., Aug. 23, 1892, 127 73  
 References—Warwick, 329,517. Nov. 3, 1885.  
 Eddy, 413,639. Oct. 22, 1889.  
 3,564 of 1879. English.  
 Yost & Moore, 448,469. March 17, 1891.  
 Edwards, 448,739. March 24, 1891.  
 Interference with patent to Yost & Moore,  
 No. 448,469. March 17, 1891. And applica-  
 tion of W. J. Edwards. Decision favorable  
 to Garford.
- 481,569 Jewett, Frank Aug. 30, 1892, . . . . . 127 73  
 References—Brown, 355,375. Jan. 4, 1887.  
 Clough & Carter, 426,524. April 29, 1890.  
 Keating, 420,805. Feb. 4, 1890.  
 Gerst, 435,466. Sept. 2, 1890.
- 481,608 Weston, Frank, Aug. 30, 1892, 128 74  
 References—Hilliard, 448,716. March 24, 1891.  
 Lamson, 320,145. June 16, 1885.  
 Ambler, 230,981. Aug. 10, 1880.  
 Almy, 303,481. Aug. 12, 1884.  
 Butcher, 356,822. Feb. 1, 1887.
- 481,681 Wellstein, Joseph, and Maxfield, Morgan E., Aug. 30, 1892, . . . . . 128 74  
 References—Tillinghast, 450,951. April 21, 1891.  
 Porkin, 8,744 of 1891. English.  
 7,287 of 1890.  
 10,958 of 1890.
- 481,734 Phelps, Lucius J., Aug. 30, 1892, . . . . . 129 74  
 References—Fleming, 443,938. Dec. 30, 1890.  
 Evans, 449,581. March 31, 1891.  
 Bigelow, 453,540. June 2, 1891.
- 481,751 Engler, Richard A., Aug. 30, 1892, 129 75  
 No references.
- 481,762 Ives, John F., and Colman, Frank B., Aug. 30, 1892, . . . . . 129 75  
 No references.
- 481,821 Rees, Jonathan, Aug. 30, 1892, . . . . . 129 75  
 References—Nevison, 79,495. June 30, 1868.  
 Johnson, 125,053. March 26, 1872.  
 Long, 320,076. June 16, 1885.

P.	C.	P.	C.
481,883 Yost, Abraham and Fernando, Aug. 30, 1892, . . . . .	130 75	482,819 Wagner, Curt, Sept. 20, 1892, . . . . .	136 79
References—Dillaha, 91,829. June 29, 1869. Bergner, 91,510. June 22, 1869. Lose, 325,548. Sept. 1, 1885. Horton, 436,239. Sept. 9, 1890.		References—Golding, 608 of 1884. English. Barker, 1,952 of 1888. Montgomery, 438,935. Oct. 21, 1890. Gendron, 466,822. Jan. 12, 1892. Melin, 422,089. Feb. 25, 1890.	
481,890 Blood, Maurice E., Aug. 30, 1892, 130 75		482,856 Tremblay, Alfred, Sept. 20, 1892, 136 80	
No references.		No references.	
482,067 Sweetland, Frank, Sept. 6, 1892, . . . . .	131 77	482,938 Blood, Maurice E., Sept. 20, 1892, 136 80	
References—Vincent, 455,673. July 7, 1891.		References—Brooks, 12,909 of 1887. English. Brooks, 6,059 of 1889. Ellis, 397,346. Feb. 5, 1889. Hatz, 332,141. July 28, 1885. Curtis et al., 228,733. June 15, 1880.	
482,090 Kehr, Cyrus, Sept. 6, 1892, . . . . .	131 77	483,084 Rockwell, Edward D., Sept. 20, 1892, . . . . .	137 80
No references.		References—Rockwell, 471,982. March 29, 1892. Nichols, 66,874. July 16, 1867. Rockwell, 473,854. April 26, 1892.	
482,100 Rawle, John, Sept. 6, 1892, . . . . .	131 77	483,131 Bingham, John H., Sept. 27, 1892, 138 81	
References—Lose, 325,548. Sept. 1, 1885. Breitmoser, 452,336. May 12, 1891. Horton, 431,894. July 8, 1890. Frazer & Austin, 91,734. June 22, 1869.		References—6,566 of 1800. English. Richwine, 459,614. Sept. 15, 1891.	
482,175 Hollafolla, George, Sept. 6, 1892, . . . . .	132 77	483,146 Gleason, Francis, Sept. 27, 1892, 138 81	
References—5,358 of 1881. English. 193 of 1886. “ 17,529 of 1888. “		References—Morton, 418,923. Jan. 7, 1890.	
482,182 Lungren, Charles M., Sept. 6, 1892, 132 77		483,172 Schrader, George H. F., Sept. 27, 1892, . . . . .	139 81
References—14,563 of 1890. English. Jeffery, 454,115. June 16, 1891. Overman, 446,692. Feb. 17, 1891. 7,794 of 1885. English. 1,952 of 1888. “ 4,350 of 1889. “ Tillinghast, 450,952. April 21, 1891.		References—DeWolfe, 460,714. Oct. 6, 1891. Jeffery, 454,115. June 16, 1891. Schrader, 43,673. April 26, 1892. Woodward, 477,397. June 21, 1892.	
482,271 Openshaw, George, and Carr, Charles A., Sept. 6, 1892, . . . . .	133 77	483,238 Rockwell, Frederick C., Sept. 27, 1892, . . . . .	139 81
References—Birk, 2,713 of 1890. English.		References—Jeffery, 383,131. May 22, 1888.	
482,392 Stein, Charles, Sept. 13, 1892, . . . . .	133 78	483,273 Wakefield, William O., Sept. 27, 1892, . . . . .	139 82
References—Owen, 365,091. June 21, 1887. Lea, 3,067 of 1885. English.		References—Owen, 323,066. July 28, 1885. Duryea, 364,231. July 7, 1887. Harrison, 252,939. Jan. 31, 1882. Latta, 326,752. Sept. 22, 1885. Latta, 325,420. Sept. 1, 1885. Latta, 327,399. Sept. 20, 1885. Sawyer, 225,239. March 9, 1880. Smith, 392,073. Nov. 13, 1888. Barker, 361,233. April 12, 1887. Latta, 377,204. Jan. 31, 1888.	
482,487 Phelps, Lucius J., Sept. 13, 1892, 133 78		483,344 Bullard, James H., Sept. 27, 1892, 140 82	
References—Walch, 14,563 of 1890. English. Lundner, 21,253 of 1890. “ Starley, 6,103 of 1887. “ Kelley, 362,514. March 10, 1887. King, 349,800. Sept. 28, 1886. Smith, 230,669. Aug. 3, 1880. Rice, 473,408. April 19, 1892.		References—Porkin, 8,744 of 1891. English. Porkin, 60,491. German. Ulbrich, 62,106. “ Dunn, 477,996. June 28, 1892.	
482,649 Phlion, Achille, Sept. 13, 1892, . . . . .	134 78	483,373 Woodward, Charles E. W., Sept. 27, 1892, . . . . .	140 82
References—Davidson, 158,866. March 27, 1877. Greenslade, 123,395. Feb. 6, 1872. Landis, 268,808. Dec. 12, 1882. Kelly & Dieter, 310,443. Jan. 6, 1885.		References—Dorchester, 468,580. Feb. 9, 1892. Dorchester, 472,786. April 12, 1892. Dunlop, 453,550. June 2, 1891. 16,721 of 1891. English. Dunlop, 435,995. Sept. 9, 1890.	
482,658 Taylor, William W., Sept. 13, 1892, 134 78		483,422 Class, Philip H., Sept. 27, 1892, . . . . .	140 82
References—Rice & O'Day, 392,756. Nov. 13, 1888. Raddin, 48,207. June 13, 1865. Hubbard, 117,077. July 18, 1871. Gallup, 305,503. Aug. 12, 1884. Gillies, 401,551. April 16, 1890.		References—Bernhard, 243,195. June 21, 1881. Bannilir, 65,633. June 11, 1867. Guethler & Gellhaus, 467,737. Jan. 26, 1892.	
482,708 Watkins, Gardiner A., Sept. 13, 1892, . . . . .	135 79	483,493 Hicks, Thomas H., Sept. 27, 1892, 140 82	
References—Strait, 452,087. May 12, 1892.		References—Toney & Livingston, 472,411. April 5, 1892. Overman, 446,692. Feb. 17, 1891. Bartlett, 434,974. Aug. 26, 1890. Thomas, 399,367. March 12, 1889. 20,503 of 1890. English. 11,800 of 1889. “	
482,735 Hanson, Olaus, Sept. 20, 1892, . . . . .	135 79		
References—Warwick, 399,455. March 12, 1889. Warwick, 12,582 of 1887. English. Kenfield, 448,750. March 24, 1891. Keating, 426,670. April 29, 1890. Moore, 447,341. March 3, 1891.			
482,806 Munz, Theodore C., Sept. 20, 1892, 135 79			
References—Hannes, 433,621. Aug. 5, 1890.			

<i>P. C.</i>	<i>P. C.</i>
483,495 Hunter, Andrew, Sept. 27, 1892, . 141 83 References—Hanchett et al., 109,408. Nov. 22, 1870. Hoak, 341,911. May 18, 1886.	484,367 Hicks, Thomas H., Oct. 11, 1892, 148 88 References—2,396 of 1885. English. 3,312 of 1883. "
483,559 Hunt, Jonathan A., Oct. 4, 1892, 143 85 References—Lampugh, 293,656. Feb. 19, 1884. Jeffery, 354,997. Dec. 28, 1886. Brooks, 456,792. July 28, 1891. Gilbert, 415,291. Nov. 19, 1889. Hance, 454,431. June 16, 1891. Harriott, 439,400. Oct. 28, 1890. Hunt, 471,685. March 29, 1892. Interference with application of Ralph W. Hill. Decision favorable to Hunt.	484,420 Gleason, Francis, Oct. 18, 1892, . 149 88 References—McCune, 456,771. July 28, 1891. Sheldon et al., 456,779. July 28, 1891. Lindner, 21,253 of 1890. English. Gleason, 451,477. May 5, 1891.
483,583 Robertson, Thomas, W., Oct. 4, . 143 85 References—14,563 of 1890. English. 21,253 of 1890. " 21,253 of 1890. Belgium. Rice, 473,408. April 19, 1892. Straus, 474,433. May 10, 1892.	484,492 Copeland, James S., Oct. 18, 1892, 149 88 No references.
483,585 Sandgren, Arvid J., Oct. 4, 1892, 143 85 References—Shute, 310,620. Jan. 13, 1885.	484,509 Schrader, George H. F., Oct. 18, . 149 88 No references.
483,621 Reaney, David L., Oct. 4, 1892, 144 85 References—Hotchkiss, 186,565. Jan. 23, 1877. Meyer & Bier, 317,831. May 12, 1885.	484,552 Gleeson, John R., Oct. 18, 1892, 150 89 References—Squires, 258,492. May 23, 1882. Moran, 235,551. Dec. 14, 1880. Borreson, 455,556. Dec. 3, 1889. Adams, 76,933. March 31, 1868.
483,661 Thurston, Henry W., and Stenersen, Erik, Oct. 4, 1892, . 144 85 References—Goodrich, 437,191. Sept. 30, 1890. Goodrich, 455,395. July 7, 1891. Leddell, 367,949. July 26, 1887. Warwick, 438,124. Oct. 7, 1890.	484,586 Gelin, Peter, Oct. 18, 1892, . 150 89 No references.
483,703 West, Harley E., Oct. 4, 1892, . 144 86 References—Gendron, 419,937. Jan. 21, 1890. West, 418,904. Jan. 7, 1890.	484,675 Robinson, Arthur W., Oct. 18, . 150 89 References—Baker, 343,621. June 15, 1886. Holtschreiter, 53,825. April 10, 1866. 9,509. German. 1,506 of 1859. English.
483,836 Elliott, Sterling, Oct. 4, 1892, . 145 86 References—Kunath, 401,748. April 23, 1889. Clements, 458,146. Aug. 18, 1891.	484,681 Smith, George H., Hartley, Richard K., and Medougall, Isaac S., Oct. 18, . 150 89 References—Thuemler, 398,195. Feb. 19, 1889. Graef, 321,101. June 30, 1885. Lyon, 135,435. Feb. 4, 1873.
483,875 Sloctum, Fitz M., Oct. 4, 1892, . 145 86 References—Fitz, 345,424. July 13, 1886.	484,712 Hartley, Richard K., Oct. 18, 1892, 151 89 References—Sawhill, 93,751. Aug. 17, 1869. Lacasse, 327,979. Oct. 6, 1885. Goodsell, 384,150. June 5, 1888.
483,990 Burwell, George A., Oct. 11, 1892, 146 86 References—Overman, 446,692. Feb. 17, 1891. Straus, 449,502. March 31, 1891. Warwick, 362,472. May 3, 1887. Straus, 453,520. June 2, 1891. Duryea, 459,699. Sept. 15, 1891. Owen, 365,891. June 21, 1887. King, 349,801. Sept. 28, 1886.	484,786 Fame, Thomas, and Lavender, Charles F., Oct. 25, 1892, . 151 90 References—Welch, 14,563 of 1890. English. 6,197 of 1891. Jeffery, 454,115. June 16, 1891. Schrader, 466,577. Jan. 5, 1892.
484,005 Gleason, Francis, Oct. 11, 1892, . 146 86 References—Chatfield, 269,916. Jan. 2, 1883. Maxon, 439,535. Oct. 28, 1890. McBride & Fisher, 412,527. Oct. 8, 1889. Brand, 157,150. Nov. 24, 1874. Savery, (R.) 4,685. Dec. 26, 1871. Riley, 370,087. Sept. 20, 1887.	484,857 Kempe, Arnold H., Oct. 25, 1892, 151 90 References—Davenport, 420,145. Jan. 28, 1890. Overman, 463,390. Nov. 17, 1891. Norton, 393,387. Nov. 27, 1888. Moore, 447,341. March 3, 1891.
484,152 Fuchs, Oscar J., Oct. 11, 1892, . 146 86 References—Kettell, 179,200. June 27, 1876. Fowler et al., 190,021. April 24, 1877. Heywood, 201,608. March 26, 1878. Conant, 388,532. Aug. 28, 1888. Brewster, 410,664. Sept. 10, 1889. Brewster et al., 205,844. July 9, 1878. Ames, 68,681. June 11, 1868. Raine, 251,284. Dec. 20, 1881.	484,941 Müller, Joseph J., Oct. 25, 1892, 152 90 No references.
484,289 Brooks, John B., Oct. 11, 1892, . 147 87 References—1,093 of 1889. English. 8,652 of 1888. "	484,952 Fay, Rimmon C., Oct. 25, 1892, 152 90 References—Warwick, 399,453. March 12, 1890. Thompson, 6,877 of 1889. English.
484,290 Brooks, John B., Oct. 11, 1892, . 147 87 References—13,056 of 1884. English. 9,879 of 1885. "	484,953 Fay, Rimmon C., Oct. 25, 1892, 152 90 References—Merlin, 360,541. Sept. 6, 1887. Ziegler & Hance, 431,308. July 1, 1890. Redlinger, 452,082. May 12, 1891. Copeland, 371,432. Oct. 11, 1887.
	485,094 Dey, Harry E., and Griswold, Frederick B., Oct. 25, 1892, . 152 91 References—Thayer, 183,081. Oct. 10, 1876. LaPyre, 262,794. Aug. 15, 1882. See, 280,247. June 26, 1883.
	485,110 McClymonds, Louis K., Oct. 25, 1892, . 153 91 References—Bartlett, 448,793. March 24, 1891. "Cyclist," Feb. 4, 1891.

- | P.  | C.      | P.   | C.      |
|---|---------|--|---------|
| 21,828 Ames & Frost Co., Oct. 4, 1892, . . . . .<br>(Trade Mark.)   | 145 145 | 21,873 The McIntosh-Huntington Co., Oct.<br>18, 1892, . . . . .<br>(Trade Mark.)   | 148 148 |
| No references.  |         | No references.   |         |
| 485,186 Garford, Arthur L., Nov. 1, 1892, 155 93<br>References—Harrington, 360,588. April 5, 1887.<br>Harrington, 12,94 of 1888. English.   |         | 485,187 Goodhue, Frank M., and James E.,<br>Nov. 1, 1892, . . . . . 155 93<br>References—Rowen, 425,196. May 12, 1891.<br>Evans, 464,789. Dec. 8, 1891.  |         |
| 485,285 Lewis, Walter, Nov. 1, 1892, . . . . . 155 93<br>References—McCash, 466,020. Dec. 29, 1891.   |         | 485,335 Seeblick, George, Nov. 1, 1892, . . . . . 156 93<br>References—Talbot, 407,623. July 23, 1889.   |         |
| 485,345 Gibson, Myron B., Nov. 1, 1892, 156 94<br>References—Arnao, 182,095. Sept. 12, 1876.<br>Kihl, 393,071. Nov. 20, 1888.<br>Robinson, 407,876. July 30, 1889.<br>Stanford, 433,829. Aug. 5, 1890.<br>Schemmel, 381,956. May 1, 1888.   |         | 485,350 Morrow, Alexander P., Nov. 1,<br>1892, . . . . . 157 94<br>No references.  |         |
| 485,369 Breyer, Johannes F., Nov. 1, 1892, 157 94<br>References—Smith & Horen, 432,335. July 15, 1890.<br>Hall, 331,496. Dec. 1, 1885.<br>Wells, 2,400. Dec. 23, 1841.<br>2,145 of 1866. English.<br>Adams, 391,770. Oct. 30, 1888.<br>Ross, 380,221. March 27, 1888.   |         | 485,434 Stein, Charles, Nov. 1, 1892, . . . . . 158 95<br>References—Knous, 405,780. June 25, 1889.<br>Mercer, 460,784. Oct. 6, 1891.<br>Harriot, 439,400. Oct. 28, 1890.  |         |
| 485,540 Gibbs, William E., Nov. 1, 1892, 159 95<br>References—Holt, 9,381 of 1890. English.<br>De Wolfe, 460,714. Oct. 6, 1891.<br>Woodbury, 276,121. April 17, 1883.<br>Patterson, 362,532. May 10, 1887.  |         | 485,572 Beebe, Charles F., Nov. 1, 1892, . . . . . 159 95<br>References—Ehrlich, 327,669. Oct. 6, 1885.<br>Taylor, 459,347. July 21, 1891.<br>Wilson, 459,569. Sept. 15, 1891.   |         |
| 485,583 Kenney, Owen E., and Cable, Frank<br>D., Nov. 1, 1892, . . . . . 159 95<br>References—Cornelius, 455,864. July 14, 1891.<br>Bolte, 447,933. March 10, 1891.<br>McErlain, 421,748. Feb. 18, 1890.<br>Overman, 442,387. Dec. 9, 1890.<br>Holmes, 447,542. March 3, 1891.<br>Norton, 393,587. Nov. 27, 1888.<br>Moore, 447,341. March 3, 1891.<br>Hanson & Fyrburg, 406,581. July 9, 1889.<br>McErlain, 2,567 of 1890. English.  |         | 485,605 Brown, Kirk, Nov. 8, 1892, . . . . . 159 95<br>References—Campbell, 12,663 of 1849. English.<br>Mulliner, 193,988. Aug. 7, 1877.<br>Interference with applications of William<br>A. Hance, Alexander Straus, and John F.<br>Palmer. Decision favorable to Brown. |         |
| 485,633 Keating, Robert M., Nov. 8, 1892, 160 96<br>References—Welch, 14,563 of 1890. English.<br>Johnson, 8,592 of 1891. "<br>"Cyclist," Feb. 4, 1891, p. 4, supplement  |         | 485,678 Ash, Walter V., Nov. 8, 1892, . . . . . 160 96<br>No references.   |         |
| "The Lightening Tire."<br>Woodward, 464,767. Dec. 8, 1891.<br>Hutson, 16,948 of 1886. English.<br>Jeffery, 454,115. June 16, 1891.<br>Harris, 371,580. Oct. 18, 1887.<br>DuBois, 419,005. Jan. 7, 1890.<br>Whiton, 345,351. July 13, 1886.<br>Overman, 436,993. Sept. 23, 1890.<br>Weir, 460,243. Sept. 29, 1891.   |         |  |         |
| Lloy & Priest, 459,888. April 21, 1891.<br>Kling, 358,204. Feb. 22, 1887.<br>Semple, 447,741. March 3, 1891.<br>Copeland, 469,626. Feb. 23, 1882.<br>Redlinger, 452,082. May 12, 1891.<br>Ziegler & Hance, 431,308. July 1, 1890.<br>Clement, 468,643. Feb. 9, 1892.<br>Garford, 457,080. Aug. 4, 1891.<br>Kimball, 471,358. March 22, 1892.<br>Jeffery, 411,035. Sept. 17, 1889.<br>Thomas, 422,549. March 4, 1890.<br>Thresher, 387,700. Aug. 14, 1888.<br>Powell, 452,040. May 19, 1891.<br>Guthrie, 464,154. Dec. 1, 1891.<br>Latta, 440,867. Nov. 18, 1890.<br>4,905 of 1891. English. |         |  |         |
| 485,844 Guethler, William, and Gellhaus,<br>Frank, Nov. 8, 1892, . . . . . 161 97<br>References—Bouse, 469,227. Feb. 23, 1892.<br>Kimball, 153,901. Aug. 11, 1874.  |         |  |         |
| 485,865 Hadley, Charles E., Nov. 8, 1892, 162 98<br>References—Hart, 363,518. May 24, 1887.<br>Harrington, 364,171. May 31, 1887.   |         |  |         |
| 485,898 Sweeting, Thomas H., Nov. 8, 1892, 162 98<br>References—Campbell, 12,663 of 1849. English.<br>Thomson, 5,104. May 8, 1847.<br>Brown, 468,721. Feb. 9, 1892.<br>Jeffery, 454,115. June 16, 1891.<br>62,820 of 1891. German.  |         |  |         |
| 486,055 Saladee, Cyrus W., Nov. 8, 1892, . . . . . 162 98<br>References—Brown, 39,417. Nov. 27, 1888.<br>Briggs, 448,204. March 17, 1891.<br>Stanley et al., 277,302. May 15, 1883.<br>Latta, 456,729. July 28, 1891.<br>Leggett, 296,192. April 1, 1884.<br>Kiani, 285,821. Oct. 2, 1883.<br>Overman, 398,533. Feb. 26, 1889.<br>Hadley, 464,300. Dec. 1, 1891.<br>Curtin, 255,775. April 4, 1882.<br>Weidman, 331,173. Nov. 24, 1885.<br>Smith, 382,913. May 15, 1888.<br>Lewis, 242,784. June 14, 1881.  |         |  |         |
| 486,056 Saladee, Cyrus W., Nov. 8, 1892, . . . . . 163 98<br>References—Redlinger, 431,529. July 1, 1890.<br>Vale, 472,005. March 20, 1892.<br>17,740 of 1889. English.<br>Leechman, 447,835. March 10, 1891.<br>Latta, 447,434. March 3, 1891.<br>Teeter, 453,053. May 26, 1891.<br>Semple, 447,741. March 3, 1891.<br>Lewis, 471,842. March 29, 1892.<br>618 of 1876. English.<br>Hadley, 464,300. Dec. 1, 1891.<br>Garford, 457,435. Aug. 11, 1891.<br>Latta, 387,979. Aug. 14, 1888.<br>Edwards, 475,444. May 24, 1892.   |         |  |         |
| 486,146 Westwood, Frederick, and Butler<br>William H., Nov. 15, 1892, . . . . . 164 99<br>References—Owen, 365,091. June 21, 1887.<br>Barker, 1,952 of 1888. English.<br>Jeffery, 454,115. June 16, 1891.<br>Elliott, 440,701. March 18, 1890.  |         |  |         |

- | <i>P. C.</i>   | <i>P. C.</i>   |
|--|--|
| 14,945 of 1885. English.<br>Sheldon, 7,262 of 1888. English.<br>"Cyclist," Dec. 2, 1891, p. 19, "The Double Hollow Rim."   | 486,556 Burnwell, George A., Nov. 22, 1892, . . . . . 168 101<br>References—Morris, 469,165. Feb. 16, 1892.<br>Straus, 449,502. March 31, 1891.  |
| 486,191 Edlin, Robert, Nov. 15, 1892, . . . . . 164 99<br>References—Swindley, 475,828. May 31, 1892.<br>Woodward, 477,397. June 21, 1892.<br>Smith, 476,085. May 31, 1892.<br>Golding, 5,667 of 1891. English.  | 486,620 Stowe, Benjamin L., Nov. 22, 1892, . . . . . 168 101<br>References—Reed, (R.) 7,442. Dec. 19, 1876.<br>Gillespie, 173,615. Feb. 15, 1876.<br>Gillespie, 268,366. Nov. 28, 1882.<br>Callahan, 222,770. Dec. 23, 1879.   |
| 486,197 Saladee Cyrus W., Nov. 15, 1892, . . . . . 164 99<br>References—Bean, 341,547. May 11, 1886.<br>Hale, 339,289. Aug. 6, 1886.<br>Hunt, 471,685. March 29, 1892.<br>Lindner, 464,508. Dec. 8, 1891.<br>Owsley, 466,083. Jan. 12, 1892.<br>Douglass, 469,629. Feb. 23, 1892.<br>Smith, 477,277. June 21, 1892.<br>Edwards, 845 of 1882. English.<br>Warwick, 416,697. Dec. 3, 1889.<br>Brooks, 472,427. April 5, 1892.<br>Overman, 331,001. Nov. 24, 1885.<br>Bolte, 457,834. Aug. 18, 1891.<br>McGlinchey, 468,998. Feb. 16, 1892.<br>McGlinchey, 455,474. July 7, 1891. | 486,621 Stowe, Benjamin L., Nov. 22, 1892, . . . . . 168 102<br>References—Mayall, 27,553. March 20, 1860.<br>Gillispie, 268,366. Nov. 28, 1882.<br>Callahan, 222,770. Dec. 23, 1879.<br>Reed, (R.) 7,442. Dec. 19, 1876.  |
| 486,230 Martinez, Richard P., Nov. 15, 1892, . . . . . 165 100<br>No references.   | 486,630 Crook, William H., Nov. 22, 1892, . . . . . 168 102<br>References—Clayton, 440,542. Nov. 11, 1890.<br>Bullock, 232,933. July 22, 1880.<br>Newhard, 348,041. Aug. 24, 1886.<br>Streeter, 345,652. July 13, 1886.  |
| 486,294 Perkins, George A., Nov. 15, 1892, . . . . . 165 100<br>No references.   | 486,683 Porter, William S., Nov. 22, 1892, . . . . . 169 102<br>References—Kuto, 405,363. June 18, 1889  |
| 486,432 Clark, Alexander H., Nov. 22, 1892, . . . . . 165 100<br>References—Gondy, 377,484. Feb. 7, 1888.<br>Kidnocker, 85,830. Jan. 12, 1869.<br>Filliez & Monnin, 376,241. Jan. 10, 1888.<br>Duryea, 364,231. June 7, 1887.<br>Jett, 433,172. July 29, 1890.<br>Vincent, 455,673. July 7, 1891.<br>Warwick, 322,221. July 14, 1885.<br>Warwick, 438,124. Oct. 7, 1890.<br>Linsley, 270,320. Jan. 9, 1883.<br>1,272 of 1888. English.<br>Hardy, 405,475. Dec. 22, 1891.   | 486,687 Swarthout, Albert S., Nov. 22, 1892, . . . . . 169 102<br>References—Hurdock, 463,703. Nov. 24, 1891.<br>Mosher, 456,631. July 28, 1891.<br>Duker, 463,302. Nov. 17, 1891.<br>Fleming, 443,938. Dec. 30, 1890.   |
| 486,452 Euchler, Otto, Nov. 22, 1892, . . . . . 166 100<br>References—Sampson, 289,146. Nov. 27, 1883.   | 486,884 Myers, Luther, Nov. 29, 1892, . . . . . 170 102<br>No references.  |
| 486,456 Frazee, Fremont, and Wintersteen, Jacob L., Nov. 22, 1892, . . . . . 166 100<br>No references.   | 486,914 Tillinghast, Pardon W., Nov. 29, 1892, . . . . . 170 103<br>No references.   |
| 486,464 Haag, Paul, Nov. 22, 1892, . . . . . 166 100<br>References—Thayer, 312,930. Feb. 24, 1885.   | 486,915 Tillinghast, Pardon W., Nov. 29, 1892, . . . . . 170 103<br>References—Taft, 417,796. Dec. 24, 1889.<br>Murphy, 296,436. April 8, 1884.<br>Tillinghast, 473,798. April 26, 1892.   |
| 486,509 Seddon, Edward H., Nov. 22, 1892, . . . . . 167 100<br>References—Otto, 10,378 of 1887. English.<br>Howe, 3,639 of 1889. "   | 486,935 Lewis, William T., Nov. 29, 1892, . . . . . 170 103<br>No references.  |
| 486,511 Steele, Benjamin M., Nov. 22, 1892, . . . . . 167 101<br>References—Fish, 456,891. July 28, 1891.<br>McDowell, 418,212. Dec. 31, 1889.<br>Kidder & Long, 363,339. May 17, 1887.  | 487,017 Kimball, Stephen H., Nov. 29, 1892, . . . . . 171 103<br>References—Howell, 293,251. Feb. 12, 1884.<br>Howell, 303,853. Aug. 16, 1883.<br>Ferguson, 277,252. May 8, 1883.<br>Otto, 358,291. Feb. 22, 1887.   |
| 846,542 Davies, Preston, Nov. 22, 1892, . . . . . 167 101<br>References—Dorchester, 468,560. Feb. 9, 1892.<br>Foster, 468,166. Feb. 2, 1892.<br>Scott, 16,805 of 1890. English.<br>Welch, 14,563 of 1890. "  | 487,018 Kimball, Stephen H., Nov. 29, 1892, . . . . . 171 103<br>References—Latta, 461,191. Oct. 13, 1891.<br>Goodrich, 437,191. Sept. 30, 1890.<br>Jett, 433,172. July 29, 1890.<br>Stover & Hance, 418,142. Dec. 24, 1890.<br>Lloyd & Priest, 448,909. March 24 1891.<br>Unzicker, 355,038. Dec. 28, 1886. |
| 487,081 Staples, Elial M., Nov. 29, 1892, . . . . . 171 104<br>References—Brooks, 13,056 of 1884. English.<br>Brooks, 9,879 of 1885.   |  |
| 21,967 Boston Woven Hose and Rubber Company, Nov. 8, 1892, . . . . . 163 163<br>(Trade Mark).  |  |
- No references.

- | P.  | C.      | P.  | C.      |
|---|---------|---|---------|
| 487,359 Wilson, Harriett D. T., Dec. 6,<br>1892, . . . . .  | 173 105 | Riley, 232,208. Sept. 14, 1880.<br>Rankin, 148,846. March 24, 1874.<br>Bartholomew, 336,983. March 2, 1886.<br>Bartholomew, 342,673. May 25, 1886.<br>Mallet, 399,679. March 19, 1889.<br>Hale, 337,149. March 2, 1886.<br>Grinnell, 416,220. Dec. 3, 1888.<br>Wood, 376,829. Jan. 24, 1888.<br>9,473 of 1842. English.<br>Query, 277,783. May 15, 1883.<br>Paige, 395,073. Dec. 25, 1888.<br>13,416. German.<br>117,375. French.<br>Crew, 128,597. July 2, 1872.<br>Adams, 382,347. May 8, 1888.<br>Marden, 214,937. April 29, 1879.<br>Humphreys, 116,059. June 20, 1871.<br>Lester, 143,516. Oct. 7, 1873.<br>Moulton, 312,004. Feb. 10, 1885.<br>Speer, 339,495. April 6, 1886.<br>847 of 1870. Swiss.<br>7,809 of 1886. German.<br>669. Swiss.<br>90,422. French.<br>4,208. "<br>82,090. "<br>11,068 of 1846. English.<br>1,227 of 1884. "<br>Stone, 162,323. April 20, 1878.<br>Westcott, 169,322. Oct. 26, 1875.<br>White, 359,753. March 27, 1887.<br>4,560. French.<br>Richards, March 9, 1832.<br>Sargent, May 6, 1825.<br>7,960 of 1839. English.<br>7,908 of 1886. "<br>7,909 of 1886. "<br>1,227 of 1884. "<br>11,068 of 1846. "<br>766 of 1868. "<br>1,198 of 1875. "<br>Bryant & Hyett, June 13, 1831.<br>Benz, 386,798. July 1, 1888.<br>Bernhard, 302,090. July 15, 1884.<br>Allen, 91,896. June 29, 1869.<br>Britton, 353,017. Dec. 7, 1886.<br>Eyster, 320,917. June 30, 1885.<br>Doring & Siegert, 417,550. Dec. 17, 1880.<br>Foster & Merritt, 399,190. March 5, 1890.<br>766 of 1868. English.<br>7,809 of 1886. "<br>430 of 1883. "<br>83,090. French.<br>6,615. "<br>204. "<br>3,868. "<br>4,309 of 1886. English.<br>12,332 of 1886. "<br>2,041 of 1879. "<br>Watson, 288,194. Nov. 6, 1883.<br>Elliott, 379,270. March 13, 1888.<br>Davies, 296,036. April 15, 1884.<br>Daimler, 376,638. Jan. 17, 1888.<br>Hyde, 99,079. Feb. 8, 1870. |         |
| 487,419 Lee, Henry N., Dec. 6, 1892, . . . . .  | 173 105 | 488,201 Hotchkiss, Arthur E., Dec. 20,<br>1892, . . . . .   | 177 109 |
| References—Jeffery, 444,069. Jan. 6, 1891.<br>Myers, 468,971. Feb. 16, 1892.<br>"Cyclist," Dec. 2, 1891, p. 81. "Cellular<br>Tire."<br>Woodward, 466,548. Jan. 5, 1892.<br>Thomson, 5,104. May 8, 1847.<br>10,987 of 1891. English.   |         | References—Enos, 311,112. Jan. 20, 1885.<br>McWayne, 163,227. May 11, 1875.<br>Stone, 162,323. April 20, 1875.<br>Riley, 181,596. Aug. 29, 1876.  |         |
| 487,473 Crosby, George S., Dec. 6, 1892, . . . . .  | 173 105 | 488,224 Saurbrey, George J., Dec. 20, 1892, 177 110   |         |
| References—Leeper, 420,579. Feb. 4, 1890.<br>Clark, 261,832. Aug. 1, 1882.<br>Lucas, 8,563 of 1888. English.  |         | References—Corey, 59,504. Nov. 6, 1886.<br>Baird, 308,641. Aug. 23, 1887.<br>Ball, 278,077. May 22, 1883.<br>Burbank, 428,299. May 20, 1890.<br>Cotter, 275,158. Nov. 7, 1882.<br>Lynde, 103,062. May 17, 1870.<br>Hershey, 456,567. July 28, 1891.<br>Copeland, 360,760. April 5, 1891.  |         |
| 487,522 Golding, William, Dec. 6, 1892, 173 105   |         | 488,236 Wood, Isaac, Dec. 20, 1892, . . . . .   | 179 110 |
| References—Thomson, 5,104. May 8, 1847.<br>Richwine, 442,393. Dec. 9, 1890.<br>"Cyclist," June 10, 1891, p. 17.<br>Dunlop, 435,995. Sept. 9, 1890.<br>Tillinghast, 450,952. April 21, 1891.<br>15,647. English.<br>Jeffery, 454,115. June 16, 1891.<br>Faulkner, 13,612 of 1890. English.<br>Smith, 14,203 of 1890. "<br>Dunlop, 453,550. June 2, 1891.<br>Dunlop, 20,451 of 1890. English.             |         | References—Schlarf, 202,056. April 2, 1878.   |         |
| 487,577 Marthens, Allen, Dec. 6, 1892, . . . . .  | 174 105 |   |         |
| References—Rathbun, 449,383. March 31, 1891.<br>Latta, 461,191. Oct. 13, 1891.<br>Hardy, 441,409. Nov. 25, 1890.  |         |   |         |
| 487,596 Bassett, George R., Dec. 6, 1892, 174 106   |         |   |         |
| References—Nederman, 4,889 of 1891. English.<br>Nederman, 17,896 of 1891. "   |         |   |         |
| 487,669 Hardy, Walter B., Dec. 6, 1892, 174 106   |         |   |         |
| No references.  |         |   |         |
| 487,753 Koenig, Christian, Dec. 13, 1892, 174 106   |         |   |         |
| References—Duryea, 97,176. Nov. 23, 1869.   |         |   |         |
| 487,789 Stenberg, John A., Dec. 13, 1892, 175 106   |         |   |         |
| References—Wilson, 274,163. March 20, 1883.<br>Kirkpatrick, 465,669. Dec. 22, 1891.<br>Nodder et al., 423,800. March 18, 1890.<br>Lamplugh, 382,534. May 8, 1888.<br>12,941 of 1888. English.<br>Overman, 2,184 of 1887. English.<br>Russell, 1,789 of 1885. "<br>Brooks, 13,056 of 1884. "<br>Brooks, 9,879 of 1885. "<br>Adams, 317,271. May 5, 1885.   |         |   |         |
| 487,874 Elliott, Sterling, Dec. 13, 1892, 175 107   |         |   |         |
| References—Moffatt & Huss, 470,070. March 1, 1892.  |         |   |         |
| 488,061 Bunker, William I., Dec. 13,<br>1892, . . . . .   | 176 107 |   |         |
| References—Thompson, 6,566 of 1890. English.<br>Mason, 475,785. May 31, 1892.<br>Millett, 477,769. June 28, 1892.<br>Richwine, 442,393. Dec. 9, 1890.<br>Phelps, 472,484. April 5, 1892.  |         |   |         |
| 488,200 Hotchkiss, Arthur E., Dec. 20,<br>1892, . . . . .   | 176 108 |   |         |
| References—Stimpson. June 3, 1830.<br>1,198 of 1875. English.<br>4,018 of 1821. "<br>Fish, 328,395. Oct. 13, 1885.<br>Emmons, 167. April 17, 1837.<br>Bartholomew, 398,023. Feb. 19, 1889.<br>Williams, 160,249. Feb. 23, 1875.<br>Riley, 173,240. Feb. 8, 1876.<br>Quetif, 275,819. June 5, 1883.<br>Riley, 181,596. Aug. 29, 1876.<br>James, 176,864. May 2, 1876.<br>McWayne, 163,227. May 11, 1875. |         |   |         |

- | <i>P. C.</i>   | <i>P. C.</i>  |
|--|---|
| 488,352 Hardy, Walter B., Dec. 20, 1892, 179 110<br>References—Nedderman, 4,889 of 1891. English.  | 489,112 Wright, William A., Jan. 3, 1893, 185 113<br>References—Trebert, 462,782. Nov. 10, 1891.<br>Clough & Carter, 426,524. April 29, 1890.   |
| 488,395 Justice, William M., Dec. 20, 1892, 180 110<br>References—Ross, 468,920. Feb. 16, 1892.<br>Bailey, 369,494. Sept. 6, 1887.   | 489,295 Elliott, Sterling, Jan. 3, 1893, . 185 113<br>References—Nedderman, 17,890 of 1891. English.<br>Nedderman, 4,889 of 1891.<br>Jeffery, 454,115. June 16, 1891.<br>Jeffery, 466,565. Jan. 5, 1892.<br>Jeffery, 466,789. Jan. 12, 1892.  |
| 488,464 Wiedenmann, Herman C., Dec. 20, 1892, . . . . . 180 110<br>No references.  | 489,308 Hunt, Jonathan A., Jan. 3, 1893, 186 113<br>References—Zimmer, 478,184. July 5, 1892.<br>Deardorff & Betts, 467,352. Jan. 19, 1892.<br>Bolte, 457,834. Aug. 18, 1891.<br>Latta, 472,732. April 12, 1892.<br>Brooks, 472,427. April 5, 1892.   |
| 488,494 Brown, Alexander T., and Stillman, George F., Dec. 20, 1892, 180 111<br>References—Jeffery, 454,115. June 16, 1891.<br>Harris, 371,580. Oct. 18, 1887.<br>Dubois, 419,005. Jan. 7, 1890.<br>Bartlett, 448,793. March 24, 1891.<br>Interference with applications of Charles K. Welch and Charles H. Metz. Decision favorable to Brown & Stillman.  | 489,478 Hopkinson, John E., Jan. 10, 1893, 186 114<br>References—Wood, 368,364. Aug. 16, 1887.<br>Smith, 92,381. July 6, 1869.<br>Harris, 132,006. Oct. 8, 1872.<br>Cheever, 420,863. Feb. 4, 1890.   |
| 488,539 Claus, Hurbert, Dec. 27, 1892, . 181 111<br>References—Long & Babcock, 331,248. Nov. 24, 1885.<br>Kamp, 99,210. Jan. 25, 1870.   | 489,501 Rich, Willard G., and Sager, James H., Jan. 10, 1893, . . . . . 187 114<br>References—Duryea, 293,725. Feb. 19, 1884.<br>Rhodes, 452,195. May 12, 1891.<br>Hill, 312,634. Feb. 24, 1885.<br>Harriot, 439,400. Oct. 28, 1890.<br>Edwards, 448,739. March 24, 1891.<br>Brampton, 10,100 of 1891. English.<br>Brampton, 14,211 of 1891. "<br>Owsley, 466,983. Jan. 12, 1892.<br>Warwick, 427,488. May 6, 1890.<br>Garford, 467,402. Jan. 19, 1892.<br>Hance, 454,431. June 16, 1891. |
| 488,549 Dugan, James, Dec. 27, 1892, . 181 111<br>References—Whipple, 467,360. Jan. 19, 1892.<br>Gordon, 229,395. June 29, 1880.<br>Schoch, 208,039. Sept. 17, 1878.<br>Chantay, 13,052 of 1884. English.  | 489,509 Sweetland, Frank, Jan. 10, 1893, 187 114<br>References—Sweetland, 468,370. Feb. 9, 1892.<br>Garford, 467,164. Jan. 19, 1892.<br>Mitzinger, 61,715. March 13, 1891. German.  |
| 488,603 Devore, Levi M., and Forry, Charles E., Dec. 27, 1892, . . . . . 181 111<br>References—Lorenz, 298,217. May 6, 1884.<br>Ziegler & Hance, 431,308. July 1, 1890.  | 489,645 Whitaker, Joseph F., Jan. 10, 1893, . . . . . 187 115<br>References—Gedge, 10 of 1870. English.<br>Blake, 34,163. Nov. 17, 1868.<br>1,216 of 1869. English.<br>Le Eplattenier, 438,684. Oct. 21, 1890.<br>Brown, 29,055. July 10, 1860.   |
| 488,626 Davison, Augustine C., Dec. 27, 1892, . . . . . 182 111<br>References—Telschow, 274,671. March 27, 1883.<br>Schule, 175,627. April 4, 1876.<br>Dobbins, 362,612. May 10, 1887.<br>Mauchline, 307,210. Oct. 28, 1884.<br>Stout, 141,183. July 22, 1873.<br>Boyle, 308,570. Dec. 9, 1884.<br>Reissner, 316,486. April 28, 1885.<br>Betts, 355,207. Jan. 4, 1887.<br>Lucas, 407,409. July 23, 1889.<br>Hering, 443,207. Dec. 23, 1890.<br>688 of 1878. English.<br>Guild, 395,972. Jan. 8, 1889.<br>White, 209,036. Nov. 5, 1878. | 489,714 Palmer, John F., Jan. 10, 1893, 188 115<br>References—Mayall, 88,887. April 13, 1869.   |
| 488,670 Davies, Preston, Dec. 27, 1892, . 182 112<br>No references.  | 489,840 Vorkeller, August F., Jan. 10, 1893, . . . . . 188 116<br>References—Stover, 230,722. Aug. 3, 1880.<br>Snyder, 475,622. May 24, 1892.   |
| 488,745 Taitte, Amet, Dec. 27, 1892, . 182 112<br>No references.   | 489,975 McComish, John J., Jan. 17, 1893, . . . . . 188 116<br>References—Lungren, 482,182. Sept. 6, 1892.<br>Scott, 467,984. Feb. 2, 1892.<br>Keating, 485,633. Nov. 8, 1892.  |
| 488,852 Swain, Walter, and Philipson, William, Dec. 27, 1892, . . . . . 183 112<br>References—Parkin, 8,744 of 1891. English.<br>60,491 of 1891. German.<br>62,106. "<br>Dunn, 477,996. June 28, 1892.<br>Bolte, 479,202. July 19, 1892.<br>Wellstein & Maxfield, 481,681. Aug. 30, 1892.  | 490,035 Morgan, Fred W., and Wright, Rufus. Jan. 17, 1893, . . . . . 188 116<br>No references.  |
| 22,057 Gillhuly, Stephen B., Dec. 13, 1892, 176 176<br>(Design.)<br>References—Allen et al., 444,642. Jan. 13, 1891.   | 490,097 Bergfels, Henry, Jan. 17, 1893, 190 117<br>No references.   |
| 22,223 The Henry Sears Co., Dec. 20, 1892, . . . . . 180 181<br>(Trade-mark.)<br>No References.  | 490,229 Hohenstein, Henry, and Apple, Benjamin J., Jan. 17, 1893, . . . . . 190 117<br>References—Todd, 6,706. May 5, 1888. English.  |
| 488,988 Dalisch, Oscar, Jan. 3, 1893, . . 185 113<br>References—Allridge, 336,372. Feb. 16, 1886.<br>Buell, 331,270. Dec. 1, 1885.   | 490,240 Bendure, William H., and Tilbury, Scott, Jan. 17, 1893, . . . . . 191 117<br>No references.   |

<i>P. C.</i>	<i>P. C.</i>
490,252 Jenkins, Anthony D., Jan. 17, 1893, . . . . . 191 117	490,828 Lavigne, Joseph P., Jan. 31, 1893, . . . . . 195 122
References—Avery, 20,268. Dec. 17, 1890. English. Broughton et al., 11,852. July 25, 1889. English.	References—Bowley, 442,948. Dec. 16, 1890.
11,301 } Blood, Maurice E., Jan. 17, . . . . . 191 118	490,829 Lavigne, Joseph P., Jan. 31, 1893, . . . . . 196 122
446,748 } 1893. (R.) . . . . . 191 118	References—King, 360,162. March 29, 1887.
No references. .	490,830 Lavigne, Joseph P., Jan. 31, 1893, . . . . . 196 123
490,277 Ensign, Frank H., Jan. 24, 1893, 191 118	No references.
References—Lane, 278,438. May 29, 1883. Mark, 413,949. Oct. 29, 1889.	490,844 Draper, George O., Jan. 31, 1893, 196 123
490,319 Shreiner, Edward M., and Leininger, Augustus, Jan. 24, 1893, . . . . . 192 118	References—Slutz, 381,590. April 24, 1888. Warwick, 434,615. Aug. 19, 1890. Fay, 424,870. April 1, 1890. Cooley, 261,136. July 18, 1882. Hibbert & Manuel, 446,998. Feb. 10, 1891.
References—Snyder, 453,673. June 9, 1891. Sancomb, 237,705. Feb. 15, 1881.	490,904 Gray, William A., Jan. 31, 1893, 197 123
490,369 Sloper, Thomas B., Jan. 24, 1893, 192 118	References—Schroder, 473,673. April 26, 1892. Vreeland, 263,259. Aug. 22, 1882. Foster, 456,028. July 14, 1891.
References—Veith, 62,255 of 1891. German. Rice, 475,343. May 24, 1892. Rice, 475,344. May 24, 1892.	490,929 Short sleeve, William H., Jan. 31, 1893, . . . . . 197 123
490,391 Libbey, Hosea W., Jan. 24, 1893, 192 119	No references.
References—Knapp, 400,090. March 26, 1889.	490,983 Pfautz, Daniel M., Jan. 31, 1893, 197 124
490,425 Chamberlain, George D., Jan. 24, 1893, . . . . . 193 119	References—Berrell, 329,003. Oct. 27, 1885. McClure, 157,210. Nov. 24, 1874. Kariss, 238,915. March 15, 1881. Steffa, 375,961. Jan. 3, 1888. Bernhard, 302,090. July 15, 1884.
~ References—Myers, 477,773. June 28, 1892. Coudy, 6,088 of 1891. English. Bosworth, 16,943 of 1891. "	491,010 Comstock, Harry, Jan. 31, 1893, 198 124
490,438 Hendrick, Joel H., Jan. 24, 1893, 193 119	References—Eves, 12,688 of 1891. English. Mesnils, 12,055 of 1891. "
References—Overman, 388,068. Aug. 21, 1888. Warwick, 4,189 of 1885. English. "The Cyclist," Feb. 4, 1891, p. 4, "Autoc Vale Rite Tire." Owen, 365,091. June 21, 1887.	Coudy, 11,062 of 1891. " Smith, 476,085. May 31, 1892. Davis, 86,652. Feb. 9, 1869. Torres et al., 13,071 of 1891. English.
490,459 Straus, Alexander, Jan. 24, 1893, 193 120	491,012 Ericson, Lewis E., Jan. 31, 1893, 198 124
References—Blakely, 2,057. Feb. 5, 1889. English. Brailsford, 12,930. Aug. 16, 1889. "	References—Butcher, 300,568. June 17, 1884.
490,465 Wilson, Stephen, Jan. 24, 1893, 193 120	491,040 Cummins, Theodore, Jan. 31, 1893, . . . . . 198 124
References—Hoepner, 64,418. May 7, 1867. Green, 219,252. Sept. 2, 1879. Krueger, 245,840. Aug. 16, 1881. Neal, 98,092. Dec. 21, 1869.	No references.
490,587 McHardy, Francis P., Jan. 24, 1893, . . . . . 194 120	491,057 Lawson, Margaret H., Jan. 31, 1893, . . . . . 199 125
References—Latta, 461,191. Oct. 13, 1891. Goodrich, 437,191. Sept. 30, 1890. Jett, 433,172. July 29, 1890. Stover & Hance, 418,142. Dec. 24, 1890.	References—Beers, 310,171. Jan. 6, 1885. Crane, 205,176. June 25, 1878. Weiss, 33,910. Dec. 10, 1861.
490,620 Ellis, Seele H., Jan. 24, 1893, . . . . . 194 121	22,413 Royal Cycle Works, Jan. 31, 1893, 200 200 (Trade-mark.)
References—Tillinghast, 450,951. April 21, 1891. Interference with application of Pardon W. Tillinghast. Decision unfavorable to Ellis. .	No references.
490,658 Huss, Rudolph W., Jan. 31, 1893, 194 121	491,162 Edwards, William J., Feb. 7, 1893, 201 127
References—Scott, 467,984. Feb. 2, 1892. Scott, 16,805 of 1890. English.	References—King, 358,204. Feb. 22, 1887. Clarke, 334,164. Jan. 12, 1886. Pattison, 415,253. Nov. 19, 1889. Warwick, 412,216. Oct. 1, 1889. Veeder, 239,629. April 5, 1881. Otto, 243,659. July 5, 1881. Jeffery, 400,445. July 9, 1880. Jeffery, 384,080. June 20, 1888. Pratt & Thompson, 41,940. March 15, 1864. Zimmerman, 352,070. Nov. 2, 1886. Jeffery, 354,007. Dec. 28, 1886. Eddy, 413,630. Oct. 22, 1889. Hill, 312,034. Feb. 24, 1885. 2,360 of 1883. English. 3,312 of 1883. " 5,214 of 1883. " 10,349 of 1883. " 7,608 of 1884. " 490 of 1886. "
490,714 Langmuir, Woodburn, Jan. 31, 1893, . . . . . 195 121	
References—McGovern, 420,663. Feb. 4, 1890. Jeanaud, 165,587. July 13, 1875. Pratt & Thompson, 41,940. March 15, 1864.	
490,750 Kuhn, Edmond, Jan. 31, 1893, 195 121	
References—Perry, 469,715. March 1, 1892. Foley, 369,702. Sept. 13, 1887. Cain, 405,159. Dec. 15, 1891.	
490,827 Lavigne, Joseph P., Jan. 31, 1893, 195 122	
No references. .	

	P.	C.	P.	C.
Interference between patent of J. L. Yost and C. J. Moore, 448,469, March 17, 1891, and application of Arthur L. Garford. Decision favorable to Garford.			491,938 Elliott, Sterling, Feb. 14, 1893, 208 129	
491,200 Sweetland, Frank, Feb. 7, 1893, 201 127			References—Latta, 328,235. Oct. 13, 1885. McMinn, 71,317. Nov. 26, 1867. McGowen, 187,658. Feb. 20, 1877. King, 467,376. Jan. 19, 1892. Sweetland, 475,633. May 24, 1892. Jeffery, 411,935. Sept. 17, 1889. Douglas, 469,930. Feb. 23, 1892.	
491,296 Smith, Daniel H., Feb. 7, 1893, 202 127			491,017 Howe, Eugene L., Feb. 21, 1893, 208 130	
References—Buchin, 210,935. Jan. 24, 1891. French.			References—Children, 465,692. Dec. 22, 1891. Clouse, 449,205. March 31, 1891.	
491,335 Buysse, Edward, Feb. 7, 1893, . . . 202 127			492,047 Otis, John D., and Harper, James M., Feb. 21, 1893, . . . . . 208 130	
References—Fortier, 451,035. April 28, 1891. Schneider, 206,044. July 16, 1878. Rathbun, 449,383. March 31, 1891.			References—Gerstung, 447,818. March 10, 1891.	
491,342 Fay, Waldo G., Feb. 7, 1893, . . . 202 127			492,060 Snyder, Waldo V., Feb. 21, 1893, 208 130	
No references.			References—Vick, 346,078. July 20, 1886.	
491,366 Mahoney, William, Feb. 7, 1893, 203 128			492,061 Snyder, Waldo V., Feb. 21, 1893, 209 130	
References—Bowen, 452,196. May 12, 1891. Davenport, 420,145. Jan. 28, 1890.			References—Snyder, 453,673. June 9, 1891. Snyder, 430,152. June 17, 1890. Allen, (R.) 3,739. Nov. 23, 1869. Allen, 94,058. Aug. 24, 1869. Warren, (R.) 4,120. Sept. 15, 1870. Cuzner, 112,325. March 7, 1871.	
491,386 Straus, Alexander, Feb. 7, 1893, 203 128			492,062 Snyder, Waldo V., Feb. 21, 1893, 209 130	
References—Jeffery, 383,130. May 22, 1888. Turner, 355,359. Jan. 4, 1887. Whitton, 345,351. July 13, 1886. Brown, 468,721. Feb. 9, 1892.			References—Marquardt, 468,572. Feb. 9, 1892.	
491,429 Keen, John, Marriott, Thomas R., and Cooper, Frederick, Feb. 7, 1893, . . . . . 203 128			492,063 Snyder, Waldo V., Feb. 21, 1893, 209 130	
References—Healy, 341,237. May 4, 1886. Ferris, 354,777. Dec. 21, 1886.			No references.	
491,475 Elliott, Sterling, Feb. 7, 1893, . . . 204 128			492,280 Fisher, George P., Feb. 21, 1893, 209 130	
References—Ross, 468,920. Feb. 16, 1892. Bailey, 369,494. Sep. 6, 1887. Hendricks, 394,856. Dec. 18, 1888. Parent, 241,412. May 10, 1881.			References—Thompson, 6,566 of 1890. English. Mason, 475,785. May 31, 1892. Richwine, 459,614. Sept. 15, 1891. Millet, 477,769. June 28, 1892.	
491,479 Gray, Christian H., Feb. 7, 1893, 204 128			492,285 Gundelach, Emil, Feb. 21, 1893, 210 130	
References—Jeffery, 454,115. June 16, 1891. Lange, 467,742. Jan. 26, 1892. Brown, 468,721. Feb. 9, 1892.			References—Schmitt, 371,374. Oct. 11, 1887.	
491,544 Garwood, Spencer, Feb. 14, 1893, 206 128			492,337 Randolph, William, Feb. 21, 1893, . . . . . 210 131	
References—Prosser, 229,175. July 17, 1880. Burbank, 352,989. Nov. 23, 1886. Hemmings, 92,528. July 13, 1869. Lose, 325,548. Sept. 1, 1885. Garwood, 441,151. Nov. 25, 1890. Grubinski, 18,753. Dec. 18, 1881. German.			References—Brady, 447,935. March 10, 1891. Jeffery, 282,528. Aug. 7, 1883. Miller, 289,017. Nov. 27, 1883.	
491,563 Keating, Robert M., Feb. 14, 1893, 206 129			492,375 Steers, William, Feb. 21, 1893, . . . 211 131	
References—Tillinghast, 450,952. April 21, 1891. Tillinghast, 450,951. April 21, 1891.			References—Steed & Hunt, 471,908. March 29, 1892. Zimmer, 478,184. July 5, 1892.	
491,578 Mercer, William R., Feb. 14, 1893, 207 129			492,410 Merrill, Anson P., Feb. 28, 1893, 211 131	
No references.			References—Iske & Iske, 379,114. March 6, 1888.	
491,591 Pray, Joseph F., Feb. 14, 1893, 207 129			492,510 Gregory, Herbert, Feb. 28, 1893, 211 131	
References—Sheldon, 39,838. Sept. 8, 1863. Savill, 52,754. Feb. 20, 1866. Stitt, 84,145. Nov. 17, 1868. Burroughs, 428,330. May 20, 1890. Interference with application of James H. Bullard. Decision favorable to Pray.			References—Lange, 467,742. Jan. 26, 1892. Coram & Kuolt, 443,499. Dec. 30, 1890.	
491,620 Warren, Willard A., Feb. 14, 1893, . . . . . 207 129			492,578 Fay, Rimmon C., Feb. 28, 1893, 211 131	
References—Hicks, 483,493. Sept. 27, 1892.			References—Overman, 388,068. Aug. 21, 1888. Howell, 293,251. Feb. 12, 1884.	
491,937 Copeland, James S., Feb. 14, 1893, . . . . . 207 129			492,580 Hadley, Charles E., Feb. 28, 1893, 212 131	
No references.			References—Woodward, 477,397. June 21, 1892.	
492,735 Opdale, John, Feb. 28, 1893, . . . . . 212 132			492,735 Opdale, John, Feb. 28, 1893, . . . . . 212 132	
No references.			References—West, 418,904. Jan. 7, 1890. Crowell, 244,742. July 26, 1881.	
492,740 Copeland, James S., Feb. 28, 1893, 212 132			492,740 Copeland, James S., Feb. 28, 1893, 212 132	
No references.			No references.	
492,754 Waterman, Stephen, and Luther, Charles H., Jr., Feb. 28, 1893, . . . . . 212 132			492,754 Waterman, Stephen, and Luther, Charles H., Jr., Feb. 28, 1893, . . . . . 212 132	
References—Vogel, 479,177. July 19, 1892. Sequeira, 474,764. May 10, 1892. Evans, 449,581. March 31, 1891. Trebert, 462,782. Nov. 10, 1891.			References—Vogel, 479,177. July 19, 1892. Sequeira, 474,764. May 10, 1892. Evans, 449,581. March 31, 1891. Trebert, 462,782. Nov. 10, 1891.	
22,453 Union Cycle Manufacturing Company, Feb. 7, 1893, . . . . . 205 205			22,453 Union Cycle Manufacturing Company, Feb. 7, 1893, . . . . . 205 205	
No references.			No references.	

P. C.	P. C.
22,454 Hulbert Brothers & Company, Feb. 7, 1893, . . . . . (Trade Mark.) No references.	205 205
22,455 The Yost Manufacturing Company, Feb. 7, 1893, . . . . . (Trade Mark.) No references.	206 206
492,887 Hall, Fred J., March 7, 1893, . . . . . No references.	213 133
492,907 Libbey, Hosea W., March 7, 1893, . . . . . References—Allen, 89,003. April 20, 1869. Clark, 192,055. June 19, 1877. Cheeser, 86,504. Feb. 2, 1869.	213 133
492,959 Fauber, William H., March 7, 1893, . . . . . References—Warwick, 329,517. Nov. 3, 1885. Roberts, 19,032. Nov. 24, 1890. English. Latta, 438,551. Oct. 14, 1890.	213 133
492,988 Pease, Charles F., March 7, 1893, . . . . . No references.	213 133
492,989 Pease, Charles F., March 7, 1893, . . . . . No references.	214 134
492,990 Pease, Charles F., March 7, 1893, . . . . . No references.	214 134
493,002 Webster, Harold A., March 7, 1893, . . . . . References—Crooker, 438,470. Oct. 14, 1890. Crooker, 472,287. April 5, 1892.	214 134
493,160 Golding, William, March 7, 1893, . . . . . References—Vreeland, 263,259. Aug. 22, 1882. Kinn, 431,592. July 8, 1890. Bartlett, 448,793. March 24, 1891. Johnson, 4,889 of 1891. English. Johnson, 8,592 of 1891. Atterbury, 276,662. April 10, 1883. Atterbury, 275,563. April 10, 1883. Della-way, 2,226. Aug. 21, 1841. Foster, 456,028. July 14, 1891. Thomas, 399,361. March 12, 1889. 21,253 of 1890. English. “Cyclist” of Feb. 4, 1891, p. 11. “The British Self-Fixing Pneumatic Tire.” Jeffery, 383,127. May 22, 1888. De Wolfe, 460,714. Oct. 6, 1891.	215 134
493,201 Xander, John G., March 7, 1893, . . . . . References—Latta, 447,434. March 3, 1891. Keating, 426,670. April 29, 1890.	216 134
493,338 Petrini, Edvard, March 14, 1893, . . . . . No references.	216 135
493,419 Wolcott, Marcus R., March 14, 1893, . . . . . No references.	217 135
493,488 Duryea, Charles E., March 14, 1893, . . . . . References—Flemming, 62,258. German. Scott, 4,108 of 1891. English. 6,542 of 1891. “ 5,197 of 1891. “	217 135
493,505 Kurtz, Louis, March 14, 1893, . . . . . References—Stevens, 390,916. Oct. 9, 1888. Latta, 391,253. Oct. 16, 1888. Horton, 431,895. July 8, 1890. Dugas, 89,744. May 4, 1890.	218 135
Dearlove et al., 381,763. April 24, 1888. Phillips, 350,080. Sept. 28, 1886. Henry, 393,904. Dec. 4, 1888. White, 269,609. Dec. 26, 1882. Mohr, 354,649. Dec. 21, 1886. Ellis et al., 305,061. Sept. 16, 1884. Overman & Hadley, 270,691. Jan. 16, 1883. McClure, 331,518. Dec. 1, 1885. Bodel et al., 169,774. Nov. 9, 1875. Paessler, 320,677. June 23, 1885. Kemsey, 431,060. July 1, 1890. Mullins, 381,504. April 17, 1888.	218 135
References—Veith, 62,255. German. Dorchester, 477,048. June 14, 1892. Douglas, 472,341. April 5, 1892.	218 136
493,554 Lungren, Charles M., March 14, 1893, . . . . . No references.	218 135
Interference with application of T. D. Lines and F. S. Stoddard. Decision favorable to Lines & Stoddard.	218 136
493,650 Ryder, Edgar F., March 21, 1893, . . . . . References—Duryea, 357,819. Feb. 15, 1887. Richards, 252,624. Jan. 24, 1882. Moran, 235,552. Dec. 14, 1880. Beiersmith, 424,452. April 1, 1890. McQueen, 1,289 of 1884. English. 11,204 of 1886. “	219 136
493,675 Barrett, Edward, March 21, 1893, . . . . . References—Smith, 14,203 of 1890. English. Faulkner, 13,612 of 1890. “ De Wolfe, 460,714. Oct. 6, 1891. De Wolfe, 471,813. March 29, 1892.	219 136
493,696 Ferguson, William L., March 21, 1893, . . . . . References—Beaumont, 175,407. March 28, 1876. Donkin, 14,936. Oct. 17, 1888. English.	220 136
494,003 Irons, Foster H., March 21, 1893, . . . . . References—Robertson, 477,962. June 28, 1892. Jeffery, 454,115. June 16, 1891. Nedderman, 4,889 of 1891. English. Thomas, 399,361. March 12, 1889. Seddon, 6,197 of 1891. English.	220 136
494,008 Landreth, Leopold, March 21, 1893, . . . . . No references.	220 136
494,076 Perkins, Albert, March 21, 1893, . . . . . References—Edwards, 470,185. March 8, 1892. Greene, 473,837. April 26, 1892.	220 137
494,088 Shurtliff, Asahel M., March 21, 1893, . . . . . References—Ford, 395,387. Jan. 1, 1889. Crawford, 439,586. Oct. 28, 1890. Beatty, 333,587. Jan. 5, 1886. Amick, 10,901 (R.). Feb. 14, 1888. Adams, 209,638. Nav. 5, 1878. Rowland, 166,311. Oct. 23, 1877. Meyer, 186,685. Jan. 30, 1877. Austin & Smith, 322,889. July 28, 1885.	221 137
494,089 Shurtliff, Asahel M., March 21, 1893, . . . . . References—Flanders, 164,177. Aug. 18, 1874. Ayres, 183,037. Oct. 10, 1876. Bronk, 239,645. April 5, 1881.	221 137
494,113 Elliott, Sterling, March 21, 1893, . . . . . References—Edwards, 70,980. Nov. 10, 1867. Boyer, 124,785. March 10, 1872. Frazier, 299,124. March 27, 1884. Stitt, 84,145. Nov. 17, 1868.	221 138

- | P.   | C.      | P.  | C.      |
|--|---------|---|---------|
| 494,333 Hill, George H., March 28, 1893, . . . . .   | 222 138 | 494,947 Wynn, Calvin, April 4, 1893, . . . . .  | 228 143 |
| No references.   |         | References—Gifford, 2,092 of 1891. English.<br>Brown, 6,355 of 1887. "  |         |
| 494,408 Cable, Frank D., March 28, 1893, . . . . .   | 222 139 | Warwick, 441,521. Nov. 25, 1890.  |         |
| References—Owsley, 466,983. Jan. 12, 1892.<br>Latta, 455,882. July 14, 1891.<br>Veeder, 252,280. Jan. 10, 1882.<br>Latta, 472,732. April 12, 1892.   |         | 495,014 Bull, Willie S., April 11, 1893, . . . . .  | 229 143 |
| 22,661 The Kenyon Bicycle Manufactur-<br>ing Co., March 14, 1893, . . . . .  | 219 219 | References—Eddleman, 103,855. June 7, 1870.   |         |
| (Trade Mark.)  |         | 495,015 Bull, Willie S., April 11, 1893, . . . . .  | 229 143 |
| No references.   |         | No references.  |         |
| 22,697 Geigan, Joseph E., March 21, 1893, . . . . .  | 221 222 | 495,210 Smead, Isaac D., April 11, 1893, . . . . .  | 230 143 |
| (Trade Mark.)  |         | References—Kennedy, 446,835. Feb. 17, 1891.<br>Seiler, 339,439. Nov. 17, 1885.<br>Bowen, 445,710. Feb. 3, 1891.   |         |
| No references.   |         | 495,218 Coe, William J., April 11, 1893, . . . . .  | 230 144 |
| 22,710 Stearns, E. C. & Co., March 28,<br>1893, . . . . .  | 223 223 | References—Hoblyn, 193 of 1886. English.<br>Hoblyn, 2,759 of 1891. "  |         |
| (Trade Mark.)  |         | Hoblyn, 7,936 of 1891. "<br>Myers, 459,015. Sept. 8, 1891.<br>Mogk, 442,779. Dec. 16, 1890.<br>Jeffery, 454,115. June 16, 1890.<br>Bartlett, 448,793. March 24, 1891.<br>Polswarts, 5,285 of 1884. English.<br>15,228 of 1890. "                                  |         |
| No references.   |         | 495,254 Levy, Simon C., April 11, 1893, . . . . .   | 230 144 |
| 22,711 Monarch Cycle Co., March 28, 1893, . . . . .  | 223 223 | References—Cain, 465,159. Dec. 15, 1891.  |         |
| (Trade Mark.)  |         | 495,277 Stillman, George F., April 11,<br>1893, . . . . .   | 230 144 |
| No references.   |         | References—Jeffery, 454,115. June 16, 1891.<br>Jeffery, 466,789. June 12, 1892.   |         |
| 494,556 Doyle, Thomas W., April 4, 1893, . . . . .   | 225 141 | 495,293 Bertoux, Jean, April 11, 1893, . . . . .  | 231 144 |
| References—Richter, 375,933. Jan. 3, 1888.   |         | References—Kirk, 317,377. May 5, 1885.  |         |
| 494,575 Keating, John D., April 4, 1893, . . . . .   | 225 141 | 495,391 Cable, Frank D., April 11, 1893, . . . . .  | 231 144 |
| References—Smith, 14,203 of 1890. English.<br>Woodward, 477,397. June 21, 1892.<br>Golding, 5,667 of 1891. English.  |         | References—Knous, 405,780. June 25, 1889.<br>Harrington, 364,171. May 31, 1887.<br>Jeffery, 454,172. June 16, 1891.<br>Harnott, 439,400. Oct. 28, 1890.<br>Both, 457,835. Aug. 18, 1891.  |         |
| 494,584 Manton, Joseph P., April 4, 1893, . . . . .  | 225 141 | 495,442 True, Richard S., April 11, 1893, . . . . .   | 232 144 |
| No references.   |         | References—Humphreys, 332,658. Dec. 15, 1885.<br>Boudreau, 385,403. July 3, 1888.<br>Griffiths, 338,151. March 16, 1886.<br>Latta, 376,322. Jan. 10, 1888.<br>True, 455,027. June 30, 1891.<br>Hunt, 471,685. March 29, 1892.<br>Walker, 359,336. March 15, 1887. |         |
| 494,611 Welch, Charles K., April 4, 1893, . . . . .  | 225 141 | 495,454 Cummings, Henry H., and Cowen,<br>Robert, April 11, 1893, . . . . .   | 232 145 |
| No references.   |         | References—Moris, 470,811. March 15, 1892.<br>Basler, 432,293. July 15, 1890.<br>Molinari, 449,883. April 7, 1891.<br>Wortham, 282,144. July 31, 1883.  |         |
| 494,641 Maybach, Wilhelm, April 4, 1893, . . . . .   | 226 141 | 495,511 Pfeiffer, George E., April 18, 1893, . . . . .  | 233 145 |
| References—Landis, 268,808. Dec. 12, 1882.   |         | No references.  |         |
| 494,752 Bilz, John A., April 4, 1893, . . . . .  | 226 142 | 495,531 Thorp, Thomas J., April 18, 1893, . . . . .   | 233 145 |
| References—Moore, 243,151. June 21, 1881.<br>Frazier, 481,556. Aug. 30, 1892.<br>Williams & Brown, 222,558. Dec. 9, 1879.<br>Huff, 86,160. Jan. 6, 1869.<br>Fowler, 277,183. May 8, 1883.<br>Eddleman, 103,855. June 7, 1870.<br>Edwards, 70,980. Nov. 19, 1867.<br>Boyer, 124,785. March 19, 1872.<br>Frazier, 29,912. May 2, 1886. |         | References—Grout, 254,639. March 7, 1882.<br>La Casse, 327,667. Oct. 6, 1885.<br>Wirtz, 91,398. June 15, 1869.<br>Bishop, 207,240. Aug. 20, 1878.<br>Stafford, 205,921. July 9, 1878.<br>3,172 of 1890. English.  |         |
| 494,803 Cable, Frank D., April 4, 1893, . . . . .  | 226 142 | 495,661 Bown, William, and Hughes,<br>Joseph H., April 18, 1893, . . . . .  | 234 145 |
| References—Latta, 387,979. Aug. 14, 1888.<br>Hardy, 465,475. Dec. 22, 1891.<br>Binns, 473,817. April 26, 1892.   |         | References—Miller, 16,952. Dec. 28, 1886. English.<br>Snell & Sanderson, 5,546. April 16, 1887.<br>English.<br>Edge & Ticehurst, 2,947. June 21, 1882.<br>English.  |         |
| 494,804 Cable, Frank D., April 4, 1893, . . . . .  | 227 142 | 495,709 Richmond, Josiah M., April 18,<br>1893, . . . . .   | 234 146 |
| No references.   |         | No references.  |         |
| 494,839 Berry, Leander, April 4, 1893, . . . . .   | 227 142 |   |         |
| References—Clark, 6,385. April 15, 1884. English.<br>Ohlmann, 19,985. Dec. 8, 1890. "  |         |   |         |
| 494,870 Langer, Gotthold, April 4, 1893, . . . . .   | 227 142 |   |         |
| References—Leddell, 320,073. Jun 16, 1885.<br>Wood, 85,501. Dec. 29, 1868.<br>Fowler, 248,441. Oct. 18, 1881.<br>Matteson, 323,652. July 28, 1885.<br>Kettler & Brooks, 15,130. Nov. 18, 1884.<br>English.<br>Brown, 393,417. Nov. 27, 1888.   |         |   |         |
| 494,885 Perkins, Albert, April 4, 1893, . . . . .  | 227 143 |   |         |
| References—Edwards, 469,833. March 1, 1892.<br>Singer & Lee, 373,570. Nov. 22, 1887.   |         |   |         |

- 495,732 Hadley, Charles E., April 18, 1893, 234 146  
 References—Meeze, 518. Feb. 2, 1882. English.  
 Donnelly, 448,509. March 17, 1891.  
 Burwell, 467,914. Feb. 2, 1892.  
 495,733 Harris, William T., April 18,  
 1893, . . . . . 235 146  
 References—Elward, 272,670. Feb. 20, 1883.  
 Greig, 316,774. April 28, 1885.  
 Bollee, 239,432. March 29, 1881.  
 495,777 Bouery, Pierre, April 18, 1893, . 236 146  
 No references.  
 Interference with the application of  
 Gabriel A. Torrillhon. Decision favorable  
 to Bouery.  
 495,914 Smart, Charles W., April 18, 1893, 236 147  
 References—Taylor, 456,348. July 21, 1891.  
 Wyndham, 106,529. Aug. 16, 1870.  
 Hathway, 456,411. July 21, 1891.  
 Taylor, 456,347. July 21, 1891.  
 Marble, 164,195. June 8, 1875.  
 Anderson, 461,806. Oct. 27, 1891.  
 495,942 Levin, Amesach, April 18, 1893, 237 147  
 References—Albrecht, 229,655. July 6, 1880.  
 Marguerat, 408,572. Feb. 9, 1892.  
 Thoni, 247,858. Oct. 4, 1881.  
 Lindner, 412,109. Oct. 1, 1889.  
 495,974 Huss, Rudolph W., April 25,  
 1893, . . . . . 237 147  
 No references.  
 495,975 Huss, Rudolph W., April 25,  
 1893, . . . . . 238 147  
 References—Mayall, 31, 552. Feb. 26, 1861.  
 495,982 Michelin, Edouard, April 25, 1893, 239 148  
 References—Harris, 371,580. Oct. 18, 1887.  
 Golding, 5,667. April 1, 1891. English.  
 496,007 Scott, Erastus W., April 25, 1893, 239 148  
 References—Davis, 410,751. Sept. 10, 1889.  
 Evans, 404,790. Dec. 8, 1891.  
 496,073 Thompson, William L., April 25,  
 1893, . . . . . 240 148  
 References—Whaler, 467,761. Jan. 26, 1892.  
 Heermane, 63,517. April 2, 1867.  
 Wible, 223,303. Dec. 30, 1879.  
 Snowden, 380,659. May 27, 1888.  
 Bulin, 307,522. Nov. 4, 1884.  
 496,093 Okely, Joseph B., April 25, 1893, 240 148  
 References—Rauhe, 10,953. July 28, 1888. English.  
 Conley, 378,496. Feb. 28, 1888.  
 Worng & Siegert, 424,864. April 1, 1890.  
 Moss, 3,389. Feb. 25, 1891. English.  
 Masson, 12,937. July 30, 1891. " "  
 496,132 Perkins, Robert, April 25, 1893, 240 149  
 No references.  
 496,266 Lutz, William E., and Kopp,  
 Theodore, April 25, 1893, . . . . . 241 149  
 References—Horah 451,972. May 12, 1891.  
 Worng & Siegert, 424,864. April 1, 1890.  
 Birchard, 480,661. Aug. 2, 1892.  
 496,321 Morgan, Fred W., and Wright,  
 Rufus, April 25, 1893, . . . . . 241 149  
 References—Golding, 14,990 of 1891. English.  
 496,336 Callaghan, William S., April 25,  
 1893, . . . . . 242 149  
 References—Gifford, 2,092 of 1891. English.  
 Wilson, 12,974 of 1890. "  
 Eves, 12,688 of 1891. "  
 Ulbrech, 62,106. German.

- 496,359 Hammann, Frank M., April 25,  
 1893, . . . . . 242 149  
 References—Sloper, 2,919 of 1891. English.  
 Veith, 15,620 of 1891. "  
 Rice, 475,344. May 24, 1892.  
 Rice, 475,343. May 24, 1892.  
 496,361 Hunter, Andrew, April 25, 1893, 242 150  
 References—Hill, 459,363. Sept. 8, 1891.  
 Montgomery, 438,935. Oct. 21, 1890.  
 Allen, 100,244. Mar. 1, 1870.  
 Burnham, 133,560. Dec. 3, 1872.  
 Melin, 422,089. Feb. 25, 1890.  
 Gendron, 866,822. Jan 12, 1892.  
 22,754 Spalding, A. G. & Bros., April 4,  
 1893, . . . . . 228 228  
 (Trade mark.)  
 No references.  
 22,755 Spalding, A. G. & Bros., April 4,  
 1893, . . . . . 228 229  
 (Trade mark.)  
 No references.  
 22,801 Derby Cycle Co., April 11, 1893, . 232 233  
 (Trade-mark.)  
 No references.  
 22,858 Hedger, Harry D., April 18, 1893, 237 237  
 (Trade-mark.)  
 No references.  
 496,388 Adams, James W., May 2, 1893, 243 151  
 References—Latta, 378,253. Feb. 21, 1888.  
 Babe, 401,105. April 9, 1889.  
 Burdese, 355,253. Dec. 28, 1886.  
 Warwick, 399,455. March 12, 1889.  
 Wood & Birnep, 439,922. Nov. 4, 1890.  
 Zwierzchonski, 451,588. May 5, 1891.  
 496,405 Foster, William S., May 2, 1893, 243 151  
 References—Buzzell, 98,902. Jan. 18, 1870.  
 Notley, 286,476. Oct. 9, 1883.  
 Woodard, 43,651. July 26, 1864.  
 Warwick, 399,453. March 12, 1889.  
 Nickerson, 382,658. May 8, 1888.  
 496,418 Langmuir, Woodburn, May 2,  
 1893, . . . . . 243 151  
 No references.  
 496,527 Morris, James R., May 2, 1893, . 244 151  
 References—Palmer, 467,642. Jan. 26, 1892.  
 Gray, 452,876. May 26, 1891.  
 Gray, 467,502. Jan. 26, 1892.  
 Golding, 18,389 of 1891. English.  
 Wey's & Rowe, 12,152 of 1891. English.  
 496,528 Morris, James R., May 2, 1893, . 244 152  
 References—Gray, 452,876. May 26, 1891.  
 496,530 McCurdy, John R., May 2, 1893, 244 152  
 References—Ehrlich, 327,660. Oct. 6, 1885.  
 Hathway, 456,411. July 21, 1891.  
 Wilson, 459,569. Sept. 15, 1891.  
 496,571 Lapsolu, George V. G., May 2,  
 1893, . . . . . 245 152  
 References—Boltz, 479,202. July 19, 1892.  
 496,616 Page, Calvin S., May 2, 1893, . 245 152  
 References—Bullock, 258,085. June 6, 1882.  
 Singer, 15,101. Nov. 5, 1887. English.  
 Wilson, 400,242. Sept. 29, 1891.  
 Warwick, 434,615. Aug. 10, 1890.  
 Loreize, 268,217. May 6, 1884.  
 Rice, 425,390. April 8, 1890.  
 Trebert, 402,782. Nov. 10, 1891.  
 Decker, 463,302. Nov. 17, 1891.

	P. C.	P. C.	
496,627 Whiteman, Abram V., May 2, 1893, . . . . .	245 153	496,909 Shank, Orey D., May 9, 1893, . . . . .	250 155
References—Fleming, 476,533. June 7, 1892.		References—Lange, 467,742. Jan. 26, 1892.	
Tomson, 5,104. May 8, 1892.		Crooker, 472,287. April 5, 1892.	
Berry, 280,561. July 3, 1883.		Brown, 6,355 of 1887. English.	
Boyd, 279,529. June 19, 1883.		496,937 Hide, Arthur C., May 9, 1893, . . . . .	251 155
James, 270,076. Jan. 2, 1883.		References—8,766 of 1884. English.	
Smith, 280,870. July 10, 1883.		1,952 of 1888. "	
496,642 Douglas, Frank, May 2, 1893, . . . . .	246 153	496,949 Normanton, Alfred and Herbert,	
References—Smallman, 8,371 of 1891. English.		May 9, 1893, . . . . .	251 155
Straub, 474,423. May 10, 1892.		No references.	
Latta, 479,946. Aug. 2, 1892.		496,971 Fairbanks, Albert C., and Berlo,	
Heale, 458,393. Aug. 25, 1891.		Peter J., May 9, 1893, . . . . .	252 155
Clark, 20,385 of 1891. English.		References—Fabregas, 236,795. Jan. 18, 1881.	
Dunlop, 20,451 of 1890. "		Mayo, 51,735. Dec. 26, 1865.	
Neiderman, 4,889 of 1891. English.		Van Oliver, 480,738. Aug. 16, 1892.	
Lindner, 474,453. May 10, 1892.		497,028 Leininger, August and Schreiner,	
Dorchester, 472,786. April 12, 1892.		Edward M., May 9, 1893, . . . . .	252 155
Jeffery, 466,505. Jan. 5, 1892.		No references.	
Smith, 476,085. May 31, 1892.		497,050 Guest, Herbert, May 9, 1893, . . . . .	252 155
13,612 of 1890. English.		References—Humphreville, 244,901. July 26, 1881.	
20,451 of 1890. "		Haskins, 130,296. Aug. 6, 1872.	
496,664 Moore, Charles J., and Burwell, George A., May 2, 1893, . . . . .	246 153	Colborne, 1,957 of 1892. English.	
References—Lampugh, 323,693. Aug. 4, 1885.		497,068 Coffin, George H., May 9, 1893, . . . . .	252 155
Duryea, 432,125. July 15, 1890.		References—Whaler, 467,761. Jan. 26, 1892.	
Brooks, 15,049. Nov. 19, 1886. English.		Haitz, 377,456. Feb. 7, 1888.	
496,665 Moore, Charles J., and Burwell, George A., May 2, 1893, . . . . .	246 153	Whipple, 467,360. Jan. 19, 1892.	
References—Willis, 16,145. Oct. 14, 1889. English.		Barker, 230,521. July 27, 1880.	
Jeffery, 454,172. June 16, 1891.		Callahan, 351,893. Nov. 2, 1886.	
Hunt, 471,685. March 29, 1892.		Fankboner, 173,606. Feb. 15, 1876.	
496,671 Taylor, Frederick G., May 2, 1893, . . . . .	247 153	Vannerson, 348,074. Aug. 24, 1886.	
References—Lindner, 474,453. May 10, 1892.		Pettibone, 104,109. Aug. 14, 1877.	
Gleason, 484,420. Oct. 14, 1892.		497,116 BROWN, William G., May 9, 1893, . . . . .	253 155
De Wolfe, 480,400. Aug. 9, 1892.		References—Winton, 475,261. May 17, 1892.	
Burwell, 486,556. Nov. 22, 1892.		Adams, 429,989. June 10, 1880.	
Veal, 9,694 of 1890. English.		497,279 Kelly, Jarvis, P., May 9, 1893, . . . . .	253 156
496,681 Cable, Frank D., May 2, 1893, . . . . .	247 154	No references.	
No references.		497,290 Thanner, Leonhard, May 9, 1893, . . . . .	254 156
496,789 Morgan, Fred W., and Wright, Rufus, May 2, 1893, . . . . .	247 154	References—Talbot, 467,623. July 23, 1889.	
References—Golding, 14,990 of 1890. English.		497,453 Michelin, Edouard, May 16, 1893, . . . . .	255 156
Holt, 13,076 of 1891.		References—Wilson, 12,974 of 1890. English.	
Welshes, 14,563 of 1890. "		Lindner, 474,453. May 10, 1892.	
Scott, 467,984. Feb. 2, 1892.		Lindner, 93,099. Dec. 15, 1890. Belgium.	
Blundstone, 458,112. Aug. 18, 1891.		Langren, 482,182. Sept. 6, 1892.	
Dunlop, 453,550. June 2, 1891.		Fennis, 5,319 of 1891. English.	
Faulkner, 13,612 of 1890. English.		497,495 Hassan, Midbury W., May 16, 1893, . . . . .	255 156
Woodward, 477,397. June 21, 1892.		References—Van Depoele, 394,038. Dec. 4, 1888.	
Bunker, 488,061. Dec. 13, 1892.		Finney, 27,186. Jan. 2, 1883.	
Bolte, 479,202. July 19, 1892.		Adair, 421,887. Feb. 25, 1890.	
Bolte, 479,203. July 19, 1892.		497,501 Richter, William H., May 16, 1893, . . . . .	255 157
Tillinghast, 486,915. Nov. 29, 1892.		No References.	
496,800 Stamp, John G., May 2, 1893, . . . . .	248 154	497,519 Goddard, George B., May 16, 1893, . . . . .	256 157
References—Paessler, 328,709. Oct. 20, 1885.		References—Culver, 233,479. Oct. 18, 1880.	
496,803 Torkelson, Reinhard T., May 2, 1893, . . . . .	249 154	Kaldenberg, 396,091. Jan. 15, 1889.	
References—Wessle, 393,133. Nov. 20, 1880.		497,549 Rider, Charles M., May 16, 1893, . . . . .	256 157
Thomas, 184,669. June 15, 1873.		References—Taylor, 456,347. July 21, 1891.	
496,834 Landis, William J., May 2, 1893, . . . . .	249 154	Anderson, 461,806. Oct. 27, 1891.	
No references.		497,575 Holt, Leopold, May 16, 1893, . . . . .	256 157
496,880 Jeffery, Thomas B., May 9, 1893, . . . . .	250 154	References—Robertson, 477,962. June 28, 1892.	
References—Warwick, 416,697. Dec. 3, 1889.		497,634 Cowen, Robert, May 16, 1893, . . . . .	256 157
9,794 of 1887. English.		No references.	
5,868 of 1888. "		497,784 Grant, Arthur W., May 23, 1893, . . . . .	257 157
12,941 of 1888. "		References—Schembex, 315,346. April 7, 1885.	
Hale, 339,289. April 6, 1886.		Terry, 416,190. Dec. 3, 1889.	
Yost & Moore, 448,469. March 17, 1891.			
8,652 of 1888. English.			
Lloyd & Priest, 448,909. March 24, 1891.			
Knous, 311,188. Jan. 27, 1885.			

- | P. C.   | P. C.  |
|---|--|
| 497,798 Klages, William, May 23, 1893, 257 158  | Mason, 475,785. May 31, 1892.<br>Millet, 477,769. June 28, 1892.<br>Woodward, 466,548. Jan. 5, 1892.   |
| References—Anderson, 461,806. Oct. 27, 1891.<br>Siar & Dunn, 480,441. Aug. 9, 1892.<br>Taylor, 453,094. May 26, 1891.   |  |
| 497,830 Siggons, Louis K., May 23, 1893, 257 158  | 498,394 Huennekens, Frederick W., May 30, 1893, . . . . . 262 161  |
| References—Bolte, 479,202. July 19, 1892.<br>Douglas, 472,341. April 5, 1892.<br>Phelps, 472,485. April 5, 1892.<br>Thomas, (R.) 11,155. April 7, 1891.   | References—Zillgitt, 471,249. March 22, 1892.<br>Harley, 484,712. Oct. 18, 1892.<br>Warwick, 467,695. Jan. 26, 1892.<br>Hibbert & Manuel, 446,098. Feb. 10, 1891.<br>Hadley, 385,350. July 3, 1888.  |
| 497,831 Siltberg, Enoch, May 23, 1893, 258 158  | 498,479 Meisch, Michael F., May 30, 1893, 263 161  |
| References—Robertson, 477,962. June 28, 1892.<br>Douglas, 472,341. April 5, 1892.   | References—Nederman, 4,889 of 1891. English.<br>Candy, 6,088 of 1891. "<br>Latta, 479,566. July 26, 1892.  |
| 497,894 Rowe, Samuel, May 23, 1893, . . . . . 258 158   | 498,484 Noonan, Edward T., and Schmill, Joseph V., May 30, 1893, . . . . . 263 161   |
| References—Keasey, 485,763. Nov. 8, 1892.<br>Collison, 482,471. Sept. 13, 1892.   | No references.   |
| 497,965 Owen, Herbert S., May 23, 1893, 258 158   | 498,598 Whipple, Clayton J., May 30, 1893, . . . . . 263 161   |
| References—Simon, 62,820. April 24, 1891. German.<br>Minzinger, 61,715. March 13, 1891. "<br>Lee, 10,987 of 1891. English.<br>Bushin, 210,935 of 1891. French.<br>Siddon, 6,197 of 1891. English.   | References—McCash, 466,020. Dec. 29, 1891.<br>Lawrence, 10,267. July 2, 1890. English.<br>Bout, 7,982. May 22, 1890. "   |
| 497,966 Owen, Herbert S., May 23, 1893, 258 159   | 498,667 Lozier, Henry A., May 30, 1893, 263 161  |
| References—Gleason, 484,420. Oct. 18, 1892.<br>Smallman, 11,938 of 1891. English.   | References—Wilson, 12,974 of 1890. English.<br>Dring, 6,542 of 1891. "<br>Veith, 15,620 of 1891. "<br>Schrader, 466,977. Jan. 5, 1892.   |
| 497,971 Tillingsast, Pardon W., May 23, 1893, . . . . . 259 159   | 498,688 Oyler, John T., May 30, 1893, 264 162  |
| References—Cheener, 420,863. Feb. 4, 1890.<br>Gray, 452,876. May 26, 1891.<br>Bolte, 479,202. July 10, 1892.<br>Boseley & Blundstone, 475,732. May 24, 1892.<br>Hey & Rowe, 12,152 of 1891. English.<br>Waterson, 445,914. Feb. 3, 1891.  | References—Vetterlein, 476,433. June 7, 1892.  |
| 497,995 Tucker, Frank W., May 23, 1893, . . . . . 259 159   | 498,709 Elliott, Sterling, May 30, 1893, 264 162   |
| No references.  | References—Sheldon, 48,315. June 20, 1865.<br>Pray, 491,591. Feb. 14, 1893.<br>Savill, 52,754. Feb. 20, 1866.<br>Sheldon, 39,838. Sept. 8, 1863.<br>Frazier, 482,866. Sept. 26, 1892.<br>Arnold, 481,545. Aug. 30, 1892.<br>Interference with application of R. M. Keating. Decision favorable to Elliott. |
| 498,015 Luebben, Charles M., May 23, 1893, . . . . . 259 160  | 498,750 Matzen, Herman, May 30, 1893, 264 162  |
| No references.  | References—Wallach, 22,460 of 1882. German.  |
| 498,047 Cooper, John W., May 23, 1893, 259 160  | 11,331 } Phillips, Charles, May 9, 1893, . . . . . 254 156   |
| References—Traut, 478,772. July 12, 1892.<br>Goodspeed, 476,377. June 7, 1892.<br>Stimpson, 271,150. Jan. 23, 1883.<br>Burt, (Design), 1,572. May 6, 1862.  | 457,290 } (R.) . . . . . 254 156   |
| 498,051 Fisher, Edwin C., May 23, 1893, 260 160   | References—Soucheire, 6,537. April 29, 1890. English.<br>Forman, 394,067. Dec. 4, 1888.  |
| References—Davis, 339,384. April 6, 1886.<br>Billings, 212,298. Feb. 18, 1879.  | 22,960 The Eagle Bicycle Manufacturing Company, May 2, 1893, . . . . . 250 250<br>(Trade Mark.)  |
| 498,136 McDonald, Hugh, May 23, 1893, 260 160   | No references.   |
| References—McCoy, 476,479. June 7, 1892.<br>Edwards, 448,739. March 24, 1891.<br>Edwards, 12,069. July 30, 1889. English.   | 23,108 Gibson & Prentiss, May 23, 1893, 260 261<br>(Trade Mark.)   |
| 498,172 Kortright, George W., and Craven, Charles M., May 23, 1893, . . . . . 260 160   | No references.   |
| References—Evans, 449,581. March 31, 1891.<br>Anthony & Everett, 461,699. Oct. 20, 1891.  | 23,105 Luburg Manufacturing Company, May 23, 1893, . . . . . 261 261<br>(Trade Mark.)  |
| 498,224 Baskerville, Herbert E., May 30, 1893, . . . . . 261 160  | No references.   |
| References—Darcy, 195,492. Sept. 27, 1877.<br>Silber, 26,381. March 8, 1884. German.<br>Brice, 448,203. March 17, 1891.<br>Whaler, 467,761. Jan. 26, 1892.<br>Edgerton, 278,000. May 22, 1883.<br>Rippard, 250,842. Dec. 13, 1881.<br>Peyman, 7,759. May 9, 1889. English.<br>Steiner, 235,103. Dec. 7, 1880.<br>Whipple, 467,360. Jan. 19, 1892. | 23,162 Central Cycle Manufacturing Company, May 30, 1893, . . . . . 265 265<br>(Trade Mark.)   |
| 498,373 Williams, George R., May 30, 1893, . . . . . 262 160  | No references.   |
| References—McCune, 456,771. July 28, 1891.  | 498,777 Fisher, William C., June 6, 1893, 267 163  |
|   | References—Dunlop, 20,451 of 1890. English.<br>Tillinghast, 473,708. April 26, 1892.<br>Tillinghast, 486,915. Nov. 29, 1892.<br>Moseley & Blundstone, 475,732. May 24, 1892.   |
|   | 498,790 Harrington, Theodore, June 6, 1893, . . . . . 267 163  |
|   | References—Stillman, 335,650. Feb. 6, 1886.  |

## P. C.

- Stillman, 244,404. July 19, 1881.  
Moore, 243,151. June 21, 1881.
- 498,794 Huestis, Frederick W., June 6, 1893, . . . . . 267 163  
References—James, 11,369 of 1891. English.  
St'heys, 15,622 of 1891. "  
Payers, 15,783 of 1891. "  
Davis, 486,542. Nov. 22, 1892.
- 498,800 Kromer, Camillo, June 6, 1893, 268 163  
References—Weidman, 331,473. Nov. 24, 1885.  
Brown, 393,417. Nov. 27, 1888.  
Kibbe, 402,400. April 30, 1889.  
Norton, 401,205. April 9, 1889.  
Asbury, 14,194. Nov. 9, 1885. English,  
Warwick, 434,615. Aug. 19, 1890.
- 498,888 Rockwell, Frederick C., June 6, 1893, . . . . . 268 163  
References—Buell, 331,276. Dec. 1, 1885.  
Allridge, 339,372. Feb. 16, 1886.
- 499,009 Bunker, William L., June 6, 1893, 270 164  
No references.
- 499,020 Gendron, Peter, June 6, 1893, . . . . . 270 164  
References—Wren, 275,741. April 10, 1883.  
Noland, 72,669. Dec. 24, 1867.  
Stokes, 300,159. June 10, 1884.  
Schneekloth, 468,582. Feb. 9, 1882.  
McPherson, 349,946. Sept. 28, 1886.  
McDougall & Potter, 410,373. Sept. 3, 1889.
- 499,044 Selden, Edward G., and Chamberlain, George D., June 6, 1893, . . . . . 270 164  
References—3,700. Sept. 21, 1876. English.  
Lang, 44,811. German.  
Owen, 398,745. Feb. 26, 1889.
- 499,103 Goddard, George B., June 6, 1893, 270 164  
References—Kaldenberg, 306,691. Jan. 15, 1889.  
Morse, 345,166. July 6, 1886.
- 499,109 Harriott, George, June 6, 1893, 271 164  
References—Yost & Moore, 420,756. Feb. 4, 1890.  
Weston, 439,915. Nov. 4, 1890.  
Smith, 392,973. Nov. 1, 1888.  
Simmons, 169,856. Nov. 9, 1875.  
Interference with patent to Yost & Moore, 420,756, Feb. 4, 1890. Decision as to counts 1, 2, and 3 in favor of Harriott, and as to count 4 in favor of Yost & Moore.
- 499,174 Phelps, Lucius J., June 6, 1893, 271 165  
No references.
- 499,221 Friedberger, Maurice, June 13, 1893, . . . . . 271 165  
No references.
- 499,244 Naly, Sarah L., and Jones, Mary S., June 13, 1893, . . . . . 272 165  
References—Pabbitt, 435,385. Sept. 2, 1890.  
Hale, 339,289. April 6, 1886.
- 499,245 Nesbitt, John D., June 13, 1893, 272 165  
No references.
- 499,379 Fish, Warren L., June 13, 1893, 272 165  
References—Knous, 405,780. June 25, 1889.  
Babbitt, 435,385. Sept. 2, 1890.  
De Wolfe, 455,014. June 30, 1891.  
1,093 of 1889. English.  
Fish, 385,606. July 3, 1888.  
Warwick, 427,488. May 6, 1890.  
Fish, 345,424. July 13, 1886.  
Hurdle, 18,666. Dec. 21, 1888. English.
- 499,440 Rhind, Frank, June 13, 1893, . . . . . 273 166  
References—Morley, 27,924. April 17, 1860.  
Kromer, 314,725. March 31, 1885.  
Smith, 57,988. Sept. 6, 1866.  
Beidler, 195,744. Oct. 2, 1877.
- Pond, (R.) 8,457. Oct. 15, 1878.  
Hagerty, (R.) 7,568. March 27, 1877.  
Irwin, 188,142. March 6, 1877.  
Stevens, 292,871. Feb. 5, 1884.
- 499,457 Finley, Gipson, June 13, 1893, . . . . . 274 166  
References—Leeper, 420,579. Feb. 4, 1890.  
Wyndham, 106,529. Aug. 16, 1870.  
Petit, 359,629. March 22, 1887.
- 499,574 Pagett, Charles H., June 13, 1893, 274 166  
References—Myers, 477,774. June 28, 1892.  
Ballard, 483,344. Sept. 27, 1892.  
Kupfer, 481,038. Aug. 16, 1892.  
Wilson, 12,074 of 1890. English.  
Murray, 7,287 of 1890. "  
Ulbrick, 62,106. German.  
Whiton, 345,351. July 13, 1888.  
Latta, 280,633. July 3, 1883.  
Black & Jones, 9,559 of 1885. English.
- 499,581 Polhamus, Isaac, June 13, 1893, 274 166  
References—Mayfield, 419,591. Jan. 14, 1890.  
Brady, 462,908. Nov. 10, 1891.  
Fox, 225,585. March 16, 1880.
- 499,600 Sherbondy, Walter, June 13, 1893, . . . . . 275 166  
References—Kupfer, 481,038. Aug. 16, 1892.  
Seddon, 20,655 of 1891. English.
- 499,627 Brown, James A., June 13, 1893, 275 166  
References—O'Connell & Medcraft, 487,855. Dec. 13, 1892.  
Lock, 4,708. March 18, 1889. English.  
Hibert, 12,292. Oct. 31, 1889.  
Street, 29,634. Aug. 14, 1860. "  
Faught, 119,683. Oct. 3, 1871.  
Stanley, 277,802. May 15, 1883.
- 499,659 Cranston, James F., June 13, 1893, . . . . . 275 167  
References—Tillinghast, 477,316. June 21, 1892.  
2,092 of 1891. English.
- 499,675 Hendrick, Joel H., and Kelly, Jarvis P., June 13, 1893, . . . . . 276 167  
References—Latta, 455,882. July 14, 1891.  
Peet, 479,656. July 26, 1892.  
Slocum, 493,875. Oct. 4, 1892.  
Veeder, 372,994. Nov. 8, 1887.  
Douglas, 467,342. Jan. 19, 1892.  
Kirkpatrick, 405,669. Dec. 22, 1891.  
Rage, 458,113. Aug. 18, 1891.  
Barkman, 468,757. Feb. 9, 1892.
- 499,694 Wright, William A., June 13, 1893, . . . . . 276 167  
References—Clough et al., 426,524. April 29, 1890.  
Wright et al., 4,415. March 5, 1892. English.  
Shaw et al., 2,061. Jan. 24, 1884. English.
- 499,707 Bolte, Frank II, June 20, 1893, 277 167  
References—Jeffery, 411,935. Sept. 17, 1889.  
James, 709. Jan. 14, 1891. English.  
Owen, 398,745. Feb. 26, 1889.  
Warwick, 384,946. June 19, 1886.  
Jeffery, 448,655. March 24, 1891.  
Lisle, 476,884. June 14, 1892.  
Burton, 470,317. March 8, 1892.  
Dunlop, 441,649. Dec. 2, 1890.  
Barrow et al., 11,421. July 26, 1889.  
English.  
King, 327,954. Oct. 6, 1885.
- 499,718 Cutler, Henry, June 20, 1893, . . . . . 277 168  
References—Garford, 431,573. July 8, 1890.  
Brooks, 472,427. April 5, 1892.  
Little, 452,797. May 26, 1891.
- 499,724 Estep, Thomas B., June 20, 1893, 277 168  
References—O'Brien, 347,503. Aug. 17, 1886.

P.	C.	P.	C.
499,810 Warrick, John, June 20, 1893, 277	168	Stevens, 390,916. Oct. 9, 1888.	
References—Ackermann, 205,330. June 25, 1878.		House, 388,043. Aug. 21, 1888.	
499,824 DuBois, Johannes A., June 20,	1893, . . . . . 278 168	Clough & Carter, 426,524. April 29, 1890.	
References—Davis, 186,810. Jan. 30, 1877.		500,205 Heysinger, Isaac W., June 27,	
Fox, 3,065. June 20, 1875. English.		1893, . . . . . 281 170	
Lewis, 169,646. Nov. 9, 1875.		References—Gleason, 451,477. May 5, 1891.	
Horston, 11,243. July 11, 1854.		Gleason, 484,420. Oct. 18, 1892.	
499,859 Toomay, Oliver, June 20, 1893, 278 168		Ehrlich, 2,072 of 1892. English.	
References—Brown, 6,355 of 1887. English.		Premier, 67,004. German.	
Gregory, 492,510. Feb. 28, 1893.		500,293 Persil, Eugene J. L., June 27,	
499,860 Toomey, Samuel, June 20, 1893, 278 168		1893, . . . . . 281 172	
No references.		References—3,517 of 1880. English.	
499,876 Davis, James E., June 20, 1893, 279 169		5,358 of 1881. "	
References—Hohoff, 458,832. Sept. 1, 1891.		5,285 of 1884. "	
Cocks, 14,749. Oct. 13, 1888. English.		13,027 of 1885. "	
499,903 Bates, Sadie M., June 20, 1893, 279 169		17,529 of 1888. "	
References—Hall, 10,710. June 4, 1892. English.		2,926 of 1890. "	
Wall, 467,729. Jan. 26, 1892.		Allen, 278,071. May 22, 1883.	
499,956 Berry, David R., June 20, 1893, 279 169		Oliver, 415,787. Nov. 26, 1889.	
References—Holt, 9,381 of 1890. English.		Ramsay, 126,741. May 14, 1872.	
Davis, 18,259 of 1891. "		500,368 Bolte, Frank H., June 27, 1893, 282 172	
Douglas, 472,341. April 5, 1892.		References—Warwick, 280,733. Dec. 4, 1883.	
Newcombe, 10,804 of 1891. English.		Latta, 280,633. July 3, 1883.	
62,826. German.		Ball, 451,013. April 28, 1891.	
500,156 Sager, James H., June 27, 1893, 280 170		560 of 1891. English.	
References—Edwards, 448,739. March 24, 1891.		Palmer, 476,679. June 7, 1892.	
Duryea, 432,125. July 15, 1890.		Latta, 479,946. Aug. 2, 1892.	
Yost & Moore, 448,469. March 17, 1891.		Smallman, 18,371 of 1891. English.	
Hunt, 471,685. March 29, 1892.		Dunlop, 20,451 of 1890.	
500,157 Sager, James H., June 27, 1893, 280 170		Ives, 481,762. Aug. 30, 1892.	
References—Mackie, 317,395. May 5, 1885.		Lake, 16,183 of 1891. English.	
Sager, 453,212. June 2, 1891.		Holt, 13,076 of 1891. "	
Sager, 442,207. Dec. 9, 1890.		Faulkner, 13,612 of 1890. English.	
500,158 Sager, James H., June 27, 1893, 280 170		Bartlett, 16,783 of 1890. "	
No references.		Ives & Coleman, 481,762. Aug. 30 1892.	
500,177 Winton, Alexander, June 27,	1893, . . . . . 281 170	Tillinghast, 486,915. Nov. 29, 1892.	
References—Latta, 447,434. March 3, 1891.		500,384 Govan, Alexander June 27, 1893, 282 172	
Kitcken, 1,092. Jan. 21, 1892. English.		No references.	
500,468 Boyd, Horace B., June 27, 1893, 283 172		500,468 Boyd, Horace B., June 27, 1893, 283 172	
References—Bullard, 483,344. Sept. 27, 1892.		References—Bullard, 483,344. Sept. 27, 1892.	
Dunn, 477,996. June 28, 1892.		Dunn, 477,996. June 28, 1892.	
Porkin & Wright, 60,491. German.		Porkin & Wright, 60,491. German.	
500,472 Cross, Edward S., June 27, 1893, 283 172		500,472 Cross, Edward S., June 27, 1893, 283 172	
References—Hunt, 471,685. March 29, 1892.		References—Hunt, 471,685. March 29, 1892.	
Douglas, 469,629. Feb. 23, 1892.		Douglas, 469,629. Feb. 23, 1892.	

CH

100  
300

flame







LIBRARY OF CONGRESS



0 013 398 571 2

